

Arizona Water Protection Fund

The Effects of Restoration on Wildlife Recovery at the Yuma East Wetlands Restoration Project

and

The Effects of Restoration on Herpetofaunal and Mammalian Community Recovery

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TABLE OF CONTENTS

EXECUTIVE SUMMARY	i
1.0 INTRODUCTION	1
2.0 METHODS	2
2.1 Site Description	2
2.2 Invertebrate Collection	3
<i>Curation and Taxonomy.....</i>	<i>4</i>
2.3 Avifaunal Surveys	5
2.4 Mammals.....	5
2.5 Herpetofauna	6
2.6 Vegetation.....	7
2.7 Data Analysis.....	8
3.0 RESULTS	9
3.1 Invertebrates	9
<i>Riparian Habitats</i>	<i>9</i>
<i>Wetlands Habitats.....</i>	<i>11</i>
3.2 Avifauna	13
<i>Riparian Habitats</i>	<i>13</i>
<i>Wetlands Habitats.....</i>	<i>15</i>
3.3 Invertebrate and Avifaunal Relationships	17
<i>Riparian Habitats</i>	<i>17</i>
<i>Wetlands Habitats.....</i>	<i>17</i>
3.4 Mammals.....	18
<i>Riparian Habitats</i>	<i>18</i>
<i>Wetlands Habitats.....</i>	<i>21</i>
3.5 Herpetofauna	23
<i>Riparian Habitats</i>	<i>25</i>
<i>Wetlands Habitats.....</i>	<i>27</i>
3.6 Vegetation.....	29
<i>Habitat Mapping.....</i>	<i>29</i>
<i>Riparian Habitats</i>	<i>31</i>
<i>Wetlands Habitats.....</i>	<i>33</i>

4.0	CONCLUSIONS AND RECOMMENDATIONS	36
4.1	Project Conclusion	36
	<i>Invertebrates</i>	36
	<i>Avifauna</i>	37
	<i>Invertebrate and Avifaunal Species Relationships</i>	39
	<i>Mammals</i>	40
	<i>Herpetofauna</i>	42
	<i>Vegetation</i>	44
4.2	Recommendations for Future Projects	45
5.0	REFERENCES	47

FIGURES

Figure 2-1. Lizard toe clipping numbering system.	7
Figure 3-0. A two-dimensional NMS ordination plot of invertebrate species composition in the five riparian habitat types, including reference, immature restored, mature restored, control and adjacent agriculture for 2007-2008.	10
Figure 3-1. Average invertebrate species richness for the five riparian habitat types, all sampling methods combined, sampled in the YEW, YWW and BWRNWR during the 2007- 2008 research seasons (F=0.944, p=0.443). Error bars indicate standard error.	11
Figure 3-2. Average invertebrate species abundance for the five riparian habitat types, all sampling methods combined, sampled in the YEW, YWW, and BWRNWR during the 2007- 2008 research seasons (F=1.022; p=0.400). Error bars indicate standard error.	11
Figure 3-3. A two-dimensional NMS ordination plot of invertebrate species composition in the three wetland habitat types, including reference, restored, and control for 2007-2008.	12
Figure 3-4. Average invertebrate species richness for the three wetland habitat types, all sampling methods combined, sampled in the YEW and BWRNWR during the 2007-2008 research seasons (F=0.186; p=0.831). Error bars indicate standard error.	12
Figure 3-5. Average invertebrate species relative abundance for the three wetland habitat types, all sampling methods combined, sampled in the YEW and BWRNWR during the 2007-2008 research seasons (F=0.116; p=0.890). Error bars indicate standard error.	13
Figure 3-6. Average riparian avifaunal species richness for four habitat types, including reference, mature restored, immature restored, and control (F=29.226, p<0.0001). The adjacent agricultural (Ag) habitat was not utilized in the analysis. Error bars indicate standard error.	14
Figure 3-7. Average riparian avifaunal species relative abundance for four habitat types, including reference, mature restored, immature restored and control (F=18.250; p<0.0001). Adjacent agriculture (Ag) was not utilized in the analysis. Error bars indicate standard error.	14
Figure 3-8. Average wetland avifaunal species richness for three habitat types, including reference, restored, and control for the combined 2007-2008 data (F=5.547; p=0.004). Error bars indicate standard error.	16
Figure 3-9. Average wetland avifaunal species abundance for three habitat types, including reference, restored, and control for combined 2007-2008 data (F=7.221; p=0.001). Error bars indicate standard error.	16

Figure 3-10. A two-dimensional NMS ordination plot of mammalian species composition in the five riparian habitat types, including reference, immature restored, mature restored, control and adjacent agriculture (A=0.1177, p=0.0004). 18

Figure 3-11. Average riparian small mammal abundance for five habitat types, including reference, mature restored, immature restored, control, and adjacent agriculture (F=8.736, p<0.0001). Error bars indicate standard error..... 19

Figure 3-12. Average riparian small mammal species richness for five habitat types, including reference, mature restored, immature restored, control, and agriculture (F=6.495, p<0.0001). Error bars indicate standard error..... 19

Figure 3-13. Relationship between average small mammal abundance and total vegetation volume at the five riparian habitat types, including reference, mature restored, immature restored, control, and agriculture (r=0.447, p<0.0001, n=60) 20

Figure 3-14. Average mammal species abundance for the 2008 research season in the riparian reference, mature restored, immature restored, control, and agriculture sites in the Yuma East Wetlands and Bill Williams National Wildlife Refuge. Error bars indicate standard error 20.

Figure 3-15. A two-dimensional NMS ordination plot of mammalian species composition in the three wetland habitat types, including reference, restored, and control (A=0.0657, p=0.0008) 21

Figure 3-16. Average wetland small mammal abundance for three habitat types, including reference, restored, and control (F=7.061, p=0.003). Error bars indicate standard error 22

Figure 3-17. Average wetland small mammal species richness for three habitat types, including reference, restored, and control (F=6.564, p=0.004). Error bars indicate standard error 22

Figure 3-18. Average mammal species abundance for the 2008 research season in the wetland reference, restored, and control sites in the Yuma East Wetlands and Bill Williams National Wildlife Refuge. Error bars indicate standard error 23

Figure 3-19. Herptefauana captures in riparian versus wetland habitats pooled for all sites and seasons sampled during the 2008 season 24

Figure 3-20. Lizard captures by sampling period (month) pooled for all sites sampled during the 2008 season..... 24

Figure 3-21. Herpetofauna captures pooled for riparian habitats with seasons sampled displayed as different colors in the bars, during the 2008 season. The values on the ordinate are identical to those in Figure 3-10, for comparative purposes 25

Figure 3-22. A two-dimensional NMS ordination plot of herpetofaunal species composition in the four riparian habitat types, including reference, immature restored, mature restored and control (A=0.0536, p=0.0211) 26

Figure 3-23. Average riparian herpetofaunal abundance for five habitat types, including reference, mature restored, immature restored, control, and adjacent agriculture (F=5.059, p<0.002). Error bars indicate standard error..... 27

Figure 3-24. Average riparian herpetofaunal species richness for five habitat types, including reference, mature restored, immature restored, control, and agriculture (F=6.995, p<0.0001). Error bars indicate standard error..... 27

Figure 3-25. Herp captures pooled for wetland habitats with seasons sampled displayed as different colors in the bars, during the 2008 season 28

Figure 3-26. A two-dimensional NMS ordination plot of herpetofaunal species composition in the four riparian habitat types, including reference, immature restored, mature restored and control (A=0.05, p=0.075)..... 28

Figure 3-27. Average wetland herpetofaunal abundance for three habitat types, including reference, restored, and control (F=1.198, p=0.315). Error bars indicate standard error 29

Figure 3-28. Average wetland herpetofaunal species richness for three habitat types, including reference, restored, and control (F=1.367, p=0. 269). Error bars indicate standard error.....	29
Figure 3-29. Average Total vegetation volume (TVV) for reference, restored mature, restored immature, and control riparian sites and adjacent agriculture sites at the Yuma East and West Wetlands and Bill Williams National Wildlife Refuge. Error bars indicate standard error	31
Figure 3-30. Average Foliar Height Diversity (FDH, H') for reference, restored mature, restored immature, and control riparian sites and adjacent agriculture sites at the Yuma East and West Wetlands and Bill Williams National Wildlife Refuge. Error bars indicate standard error	32
Figure 3-31. Habitat Diversity (H') for reference, restored mature, restored immature, and control riparian sites and adjacent agriculture sites at the Yuma East and West Wetlands and Bill Williams National Wildlife Refuge	32
Figure 3-32. Vegetation Species Diversity (H') for reference, restored mature, restored immature, and control riparian sites and adjacent agriculture sites at the Yuma East and West Wetlands and Bill Williams National Wildlife Refuge	33
Figure 3-33. Average Total vegetation volume (TVV) for reference, restored, and control wetland sites at the Yuma East Wetlands and Bill Williams National Wildlife Refuge. Error bars indicate standard error ..	34
Figure 3-34. Average Foliar Height Diversity (FDH, H') for reference, restored and control wetland sites at the Yuma East Wetlands and Bill Williams National Wildlife Refuge. Error bars signify standard error ...	34
Figure 3-35. Vegetation Species Diversity (H') for reference, restored, and control wetland sites at the Yuma East Wetlands and Bill Williams National Wildlife Refuge.....	35
Figure 3-36. Habitat Diversity (H') for reference, restored and control wetland sites at the Yuma East Wetlands and Bill Williams National Wildlife Refuge.	36

TABLES

Table 3-1. Significant avifaunal indicator species for riparian habitats for 2007- 2008 ($\alpha=0.05$). IV= indicator value, which is the % of perfect indication, based on combining values for relative abundance and frequency.....	15
Table 3-2. Significant avifaunal indicator species for wetland habitats ($\alpha=0.05$) for 2007-2008. IV= indicator value, which is the % of perfect indication, based on combining values for relative abundance and frequency.....	17
Table 3-3. Total hectares for the different habitat types in each of the eight research sites, including reference riparian, restored immature riparian, restored mature riparian, control riparian, adjacent agriculture, reference wetland, restored wetland, and control wetland sites.....	30

APPENDICES

Appendix A. Yuma East Wetlands Site Map.....	51
Appendix B. Yuma West Wetlands Site Map.....	53
Appendix C. Bill Williams Wetland Site Map	55
Appendix D. Bill Williams Riparian Site Map	57
Appendix E. Invertebrate Datasheets	59
Appendix F. Avifaunal Datasheets	219
Appendix G. Mammal Datasheets	368
Appendix H. Herpetofauna Datasheets	419

Appendix I. Vegetation Maps.....	432
Appendix J. Vegetation Datasheets	457
Appendix K. Invertebrate Database	487
Appendix L. Avifaunal Species Detection List	524
Appendix M: Mammal Species Detection List.....	527
Appendix N. Herpetofaunal Species List	529
Appendix O. Lizards Captured by Age Class.....	531
Appendix P. Photo Essay of Research Project.....	533

EXECUTIVE SUMMARY

The Yuma East Wetlands (YEW) on the Lower Colorado River has been extensively modified by almost a century of flow control activities, channelization, agricultural manipulation, timber harvesting, non-native species invasion, and unregulated dumping. As a result, the YEW is currently dominated by monotypic stands of exotic saltcedar (*Tamarix pentandra* and *ramosissima*) and reed (*Phragmites* sp.); and the remaining native wetland habitat is threatened by sedimentation, lack of water, and invasive plants (Ohmart et al. 1988). The decline of habitat quality has adversely affected all wildlife communities, including invertebrate, avifaunal, mammals and herpetofauna. In an effort to revitalize the natural ecosystem in this area, the *Yuma East Wetlands Restoration Plan* (YEWP) (Phillips Consulting 2001) was designed to restore and enhance native riparian, wetland, and aquatic habitats on the lower Colorado River immediately upstream from Yuma, Arizona. This plan outlines the restoration activities for the different YEW habitats, with the primary goal of improving wildlife habitat.

This study looks at the recovery of avifaunal, invertebrate, mammalian and herpetofaunal communities in mature and immature restored riparian and mature restored wetland habitats in the Yuma East Wetlands (YEW) and Yuma West Wetlands (YWW). Data collected from the restored sites was compared to data collected at reference habitats in the Bill Williams River National Wildlife Refuge (BWRNWR) and un-restored control riparian and wetland habitats in the Yuma East Wetlands. The objective of this study was to determine if restored habitats were similar in avifaunal, invertebrate, mammalian and herpetofaunal richness and abundance to the reference habitats. Also, the relationship between wildlife community characteristics and habitat characteristics such as total vegetation volume and foliar height diversity were compared.

This study provided a good preliminary baseline of the distribution of all wildlife species and richness and abundance of wildlife communities, including invertebrates, avifauna, mammalian and herpetofaunal species in the Yuma East and West Wetlands. Both invertebrate and avifaunal data showed that restored sites were not significantly different from control sites and were not significantly similar to reference sites for species richness and relative abundance. Despite this finding the presence and use of the restored habitat by species of concern, including Yuma clapper rail, willow flycatchers, yellow billed cuckoos and Bell's vireos indicates that restored habitats are beginning to recover the wildlife communities. The mammal data showed that all sites were significantly different for richness and abundance. Control riparian sites had 15 times higher abundance than restored sites, and richness ranged between 0-4 species for all sites. Reference wetland sites had 4 times higher mammal abundance and 1.4 times higher richness than restored wetland sites. The herpetofaunal data showed that control and mature restored riparian sites had twice as high abundance than the agriculture, immature restored and reference riparian sites. Mammal species richness was also highest in the mature restored sites, however not significantly different than the control sites. Control wetland sites had the highest average relative abundance and species richness, however the abundance ranged from 0-2 species and richness ranged from 0-1 species.

1.0 INTRODUCTION

Riparian areas in the southwestern United States account for less than 2 percent of the landscape, yet over 65 percent of the Southwest's wildlife depends on these areas. These areas have been increasingly imperiled over the past century due to flow control activities, habitat manipulation, invasive species invasion, and agricultural development. As these habitats decline so do the species that rely on them for foraging, nesting, and migration corridors. In an effort to recover the native habitat and subsequently the species that rely on it large scale habitat restoration projects have been initiated.

The goals of most habitat restoration projects include either a wildlife species or community recovery approach, however many times due to lack of available funding the achievement of this goal is rarely studied. Riparian and wetland habitat restoration is burgeoning on the lower Colorado River (LCR), and it is essential to research the effects of habitat restoration on the recovery of wildlife communities in order to identify if the current methods utilized in restoration practices are obtaining the goals of restoring wildlife community structure and function and maximizing ecosystem resilience. By conducting community recovery research will also help establish success criteria for riparian and wetland restoration, help determine if restoration techniques are sufficient to address the needs of the wildlife community, and if necessary, will help redefine restoration strategies.

The Yuma East Wetlands (YEW) on the Lower Colorado River has been extensively modified by almost a century of flow control activities, channelization, agricultural manipulation, timber harvesting, non-native species invasion, and unregulated dumping. As a result, the YEW is currently dominated by monotypic stands of exotic saltcedar (*Tamarix pentandra* and *ramosissima*) and reed (*Phragmites* sp.); and the remaining native wetland habitat is threatened by sedimentation, lack of water, and invasive plants (Ohmart et al. 1988). Migratory and residential avifaunal communities have declined due to loss of habitat. This area was an important refuge for over-wintering waterfowl (Grinnell 1914). Invertebrate community diversity and abundance, an important food source for all wildlife, has also declined due to habitat alteration and many species have been lost (Nelson 2003). The decline of habitat quality has adversely affected both mammalian and herpetofaunal density and diversity. However, due to the lack of research, the current status on herpetofaunal and mammalian species distribution, diversity, density, and ability to recover in restored areas on the lower Colorado River, especially in the YEW, is unknown. In an effort to revitalize the natural ecosystem in this area, the *Yuma East Wetlands Restoration Plan* (YEWP) (Phillips Consulting 2001) was designed to restore and enhance native riparian, wetland, and aquatic habitats on the lower Colorado River immediately upstream from Yuma, Arizona. This plan outlines the restoration activities for the different YEW habitats, with the primary goal of improving wildlife habitat.

The Colorado River corridor serves both as a major flyway for migrating waterfowl and neo-tropical migrants and as home to a unique diversity of wetland and riparian resident species, indicating the priority of habitat restoration for birds. Yuma is home to or visited

by 70% of all species in the Western Region of North America (Grimble et al. 1997 and Ohmart et al. 1988). Migratory and residential bird communities have declined due to habitat degradation and loss (Rosenberg et al. 1991). Most notable population declines have occurred in the endangered species, the Yuma clapper rail and southwestern willow flycatcher populations (32 FR 4001, 11 March 1967; 48 FR 43182, 27 July 1983; U.S. Fish and Wildlife Service 1993). Terrestrial and aquatic invertebrates are an important food source for a variety of terrestrial vertebrates, including herpetofauna, avifauna, fish and bats. Invertebrate communities tend to recover quickly in habitats by high reproductive rates and ability to rapidly colonize available habitat. Avifaunal and invertebrate community recovery is important to research in restored areas because there are many avifaunal species of concern that utilize the lower Colorado River, making them indicators of ecosystem health, and the importance of invertebrates as a food source.

This study looks at the recovery of avifaunal, invertebrate, mammalian and herpetofaunal communities in mature and immature restored riparian and mature restored wetland habitats in the Yuma East Wetlands (YEW) and Yuma West Wetlands (YWW). Data collected from the restored sites was compared to data collected at reference habitats in the Bill Williams River National Wildlife Refuge (BWRNWR) and un-restored control riparian and wetland habitats in the Yuma East Wetlands. The objective of this study was to determine if restored habitats were similar in avifaunal, invertebrate, mammalian and herpetofaunal richness and abundance to the reference habitats. Also, the relationship between wildlife community characteristics and habitat characteristics such as total vegetation volume and foliar height diversity were compared.

2.0 METHODS

2.1 Site Description

This study utilized seven habitat types, including control riparian and wetland, mature and immature restored riparian, restored wetland, and reference riparian and wetland habitats within the Yuma East Wetlands (YEW), Yuma West Wetlands (YWW) and Bill Williams River National Wildlife Refuge (BWRNWR). Invertebrate, avifauna, mammals, and herpetofauna were sampled at the same sampling sites within each of the habitat types.

The control riparian and wetland sites and the immature restored riparian and restored wetland sites were located within the Yuma East Wetlands (Appendix A). The Yuma East Wetlands is a 1418-acre site that is located within the floodplain of the lower Colorado River. The project area covers approximately 2.25 square miles in Sections 19, 21, 22, 23, and 24, Township 8 South, Range 22 and 23 West, of the Gila Salt River Base and Meridian, in Yuma County, Arizona. The YEW was designated as part of the Yuma Crossing National Heritage Area in 1999. Since 2002 the site has been undergoing riparian and wetland restoration, and currently there are over 350 acres of restored lands. The control riparian sites were dominated by non-native *Tamarix ramosissima* and *T. pentandra* (saltcedar) interspersed with *Pluchea sericea* (arrowweed) and non-native *Phragmites australis australis* (common reed, the European genotype). The control wetland sites were dominated by *Typha* sp. (cattail) and *P. a. australis*. The immature

restored riparian sites were comprised primarily of *Populus fremontii* (Fremont cottonwood), *Salix exigua* and *S. gooddingii* (sandbar and Goodding willows), and *Prosopis glandulosa* and *P. pubescens* (honey and screwbean mesquite). The restored wetland habitat is primarily comprised of *Schoenoplectus californicus* (California bulrush) and *Scirpus americanus* (Olney threesquare).

All mature riparian restoration sites were located in the Yuma West Wetlands one mile downstream and west of the YEW (Appendix B). This area encompasses 35 acres in Sections 26 and 27, Township 8 South, Range 22 East of the Gila Salt River Base and Meridian, in Yuma County, Arizona. This area is managed by the City of Yuma. The mature restored riparian site was comprised of tall canopies of *P. fremontii*, *S. exigua* and *S. gooddingii* with medium canopy of *P. glandulosa* and *P. pubescens*. *Atriplex lentiformis* (quailbush) and *P. a. australis* dominated the understory.

The reference wetland and riparian sites were located at the Bill Williams River National Wildlife Refuge where ecosystem processes still relatively function naturally and the habitats are dominated by native species (Appendix C and D). The Bill Williams River is a tributary to the Colorado River at Lake Havasu. The refuge covers approximately acres in Sections 13, 19, 20, 21, 26, 27, 28, and 35, Township 10 and 11 North, Range 16, 17, and 18 West on the border between Mohave and La Paz Counties, Arizona. This land is managed by the U.S. Fish and Wildlife Service. The entire refuge includes 6,105 acres, however the project area spanned approximately 10 acres. BWRNWR is approximately 140 miles upstream of the YEW and YWW. The reference wetlands at the Bill Williams were dominated by *Typha* sp. (cattail). The reference riparian habitat was dominated by gallery forest *P. fremontii* and *S. gooddingii* with a medium canopy layer of *T. ramosissima* within the riparian corridor and *P. glandulosa* and *P. pubescens* in the upland areas surrounding the narrow riparian corridor.

2.2 Invertebrate Collection

Invertebrates were collected three times during the 2007 and 2008 sampling seasons during the months of May, July and September, for a total of 6 sampling periods, in the eight habitat types described above. Each habitat type was replicated three times for a total of 24 locations.

In order to quantitatively capture flying terrestrial invertebrates, a 7 foot high malaise trap was constructed on site and left for up to 12 hours. A Trimble GPS survey unit was used to record the location of the trap so that the site location could be relocated in the future. Invertebrates were captured in the trap by flying into the netted sides during normal flight and were directed to climb upward to the capture chamber. The sloping top of the trap prevented escape from the upper area. The capture chamber was secured onto the top of the trap by bungee cords. When the sampling period was complete, the capture chamber was removed and the invertebrates placed into a killing jar. All individuals caught in the trap were retained for analysis. Depending on the quantity of individuals captured, a subsample of the capture was used for identification and community characteristic calculations. The weather and time of trap set-up was recorded on the datasheet.

In addition to the malaise traps, invertebrates were also collected using the timed area search method. Invertebrates were captured for one hour using spot collection techniques within a 50m radius from the malaise trap. The weather conditions and temperature were recorded on the datasheet. Spot collection techniques for collecting terrestrial invertebrates on vegetation, including small trees, shrubs, grass, and herbs and in flight (i.e. butterflies and dragonflies) was conducted using the sweep net technique (Borror et al. 1989). The sweep net was swung back and forth across the vegetation type of interest, gathering invertebrates in the bottom of the net. For invertebrates located on tree trunks, rocks, under logs and fallen branches, in leaf litter, and in flight forceps or a small net was used to capture invertebrates (Borror et al. 1989).

In the wetland areas, aquatic invertebrates were collected by using qualitative spot sampling techniques encompassing the diversity of habitat types represented in aquatic wetlands. A D-framed net and hand net were used to sweep aquatic vegetation as well as to collect invertebrates swimming within the water column, in aquatic vegetation, and within the benthic sediment. One hour total was allocated for both terrestrial and aquatic invertebrate sampling.

Nocturnal invertebrates were also collected using a UV light trap. This method consists of setting out an UV black light trap during the night for one hour. The light trap was constructed by mounting a black light over a bucket fitted with a funnel. A jar containing killing solution (ethyl acetate) was placed in the bucket at the end of the funnel. Invertebrates were attracted to the light, and were captured by flying into the light and dropping into the funnel and into the killing solution. Datasheets from the 2007 and 2008 research seasons are located in Appendix E.

Curation and Taxonomy

Invertebrates were processed in the laboratory, separated into morpho-type, and preserved in the appropriate manner. Hard bodied invertebrates (e.g. beetles, bees and wasps, and mosquitoes, etc.) were mounted on insect pins. Mosquitoes and smaller invertebrates were glued to an invertebrate point on the right mesonotum. Soft body and aquatic invertebrates were stored in a vial filled with 70% ethyl alcohol. All pinned voucher specimens were transferred to museum cases and stored at Arizona Western College, Yuma, AZ. All invertebrates were labeled with the site name, location, replicate number, county, date, collector's name(s) (initial of the first name and complete last name), method of collection and the taxonomic name. Voucher collections were made for the Yuma Crossing National Heritage Area and Bill Williams River National Wildlife Refuge.

Since all three data collection methods targeted similar species groups (i.e. flying, ground and plant dwelling invertebrates) the three methods were combined for the data analyses. Spot sampling incorporated the collection of ground and plant dwelling invertebrates, however this method over-lapped with the other two methods by also collecting flying invertebrates. Most invertebrates were identified to the Family level with many Lepidoptera and Odonata identified down the Genus and Species. Those identified to Family were then identified to morpho-species. For certain sampling methods,

particularly malaise and UV light traps, high numbers of invertebrates prevented exact counts. Therefore, invertebrates were placed into abundance categories including: few (3-20), medium (21-50), abundant (51-100), and super abundant (>100). In order to provide a number for each of these categories the midpoint of each category was used, these included few=11, medium=35, abundant=76, and super abundant=150.

2.3 Avifaunal Surveys

Avian surveys were conducted every other month during 2007 and 2008 (January-November). A habitat-specific fixed radial point count survey design was utilized, where all points were located within the desired habitat type and all birds observed and heard within 50 meters were recorded (Neel 1999 and Ralph et al. 1993). Twelve avifaunal stations were established in six habitat types, with the exception of 11 avifaunal stations in the mature restored sites and 6 in the adjacent agricultural sites (for avifaunal station locations see Appendices A, B, C, and D). Fewer avifaunal stations were established in the mature restored and adjacent agricultural sites due to the confined habitat patch size and limited access to the agricultural sites. When comparing avifaunal and invertebrate community data, only the three avifaunal stations that overlapped with the invertebrate sampling stations were utilized.

Each point was a minimum of 100 m apart. Birds were recorded at each sampling point for a total of 5 min. All surveys during late spring, summer and early fall were conducted between a half hour before sunrise and 10:00 am, when bird activity was the greatest. During late fall, winter and early spring survey periods lasted until 11:00 am. Surveys were not conducted when the wind speed was greater than 20 km/hr, in heavy rain or thick fog. Any noises or distractions that occur during the survey were recorded. Surveys conducted between March 15- July 17 were conducted in conjunction with the Yuma clapper rail (March 15- May 31) and southwestern willow flycatcher (May 15- July 17) surveys. The National Marsh Bird Monitoring Program protocol was utilized for Yuma clapper rail surveys along the Colorado River and the southwest willow flycatcher surveys followed the guidelines outlined by the U.S. Fish and Wildlife Service. Field data sheets from the 2007 and 2008 avifaunal research seasons are located in Appendix F.

2.4 Mammals

Small mammals were surveyed in the eight habitat types listed above and replicated three times, for a total of 24 sites. The selected sites coincided with the herpetofaunal, avifaunal and invertebrate survey sites. Sampling occurred four times during the spring and fall in the 2008 sampling season. Surveys were not conducted during the hottest months, including June, July and August due to the high risk of mortality.

One transect, 50 m long, with Sherman live traps placed at 2 m intervals, were established in each of the 24 sites listed above for a total of 25 traps per transect. Since most small mammals are most active during the night, traps were baited in the evening with oatmeal, and examined early the following morning. Traps were set for no longer than 15 hours. Sherman live traps are triggered by the animal stepping on a pressure plate and the plate closing behind them. Once captured, the trapped individuals were transferred to a clear plastic bag in order to identify species, determine sex, measure, and

weigh. The measurements recorded for each captured animal included length of the head and body, tail, and hind foot. The sex of the mammal was determined, if possible, the reproductive status, and age class. Traps were not set in extremely cold temperatures ($<0\text{ }^{\circ}\text{C}$) or hot temperatures exceeding $35\text{ }^{\circ}\text{C}$. The time, temperature and climate was recorded on the datasheets before the surveys were conducted.

In addition to small mammal trapping, the site was inspected for other mammal presence and sign. If mammals were observed on the site they were recorded. The site was also walked to detect other signs of mammals including, acoustic, scat, mammal activity (beaver cuts, burrows and slides) and tracks. Mammal data sheets from the 2008 research season are located in Appendix G.

2.5 Herpetofauna

Sampling to assess the herpetofaunal (herps) community composition and relative abundance of reptile and amphibian species at each site consisted of running pitfall/funnel trap arrays (hereafter referred to as “arrays”), conducting time-constrained pedestrian surveys, and driving local roads at night (night driving) to survey for nocturnal species.

Each pitfall/funnel trap array for this study consisted of four, five-gallon buckets and three, five meter drift fences. For most arrays a central bucket (plastic, five gallon) was placed with three drift fences (composed of black silt fencing) radiating out at 120° angles, each terminating in another five gallon bucket. In areas where this placement was not possible linear arrays were constructed, in which silt fencing connected buckets in either a line or a zigzag, depending upon terrain. All buckets were buried in the ground such that the top rim of the bucket was flush with the soil, i.e. at ground level. The bottom of the drift fencing was buried in a shallow trench, and supported by wooden stakes. Each bucket was outfitted with a square cover board which was elevated allowing herps to fall into and become trapped; cover boards also provided shade in the buckets for captured animals preventing them from overheating. During spring sampling, each array was outfitted with a funnel trap constructed of a hardware cloth cylinder 1 m long with funnels at each end, wired together. The funnel traps were set flush against the middle of one of the three drift fences. Because of exposure and overheating issues, funnel traps were not used during fall sampling.

During sampling periods, arrays were usually checked daily. Captured herps were identified to species, sexed, assessed for age class (hatchling, juvenile, sub-adult, or adult), measured and marked. All data were recorded on the sampling data sheets (Appendix F). Measurements were taken by holding smaller herps up against a clear plastic ruler and recording their snout-vent length (SVL) and total length (snakes and lizards) to the nearest millimeter. Additionally, for lizards, measurements of any tail break scars were recorded. For snake larger than one foot a tape measure was used to measure length. Mass (weight) was measured either with a battery-operated balance, or with Pesola TM spring balance (to nearest 0.1 g). Lizards (the most abundant taxon captured) were given a unique toe-clip mark (Figure 2-1). Snakes were given a unique mark, consisting of a clipped ventral scale (Spellerberg 1977). Recaptured herps were

not re-measured during individual sampling periods, but when recaptures were made during a subsequent sampling period, measurements were taken again.

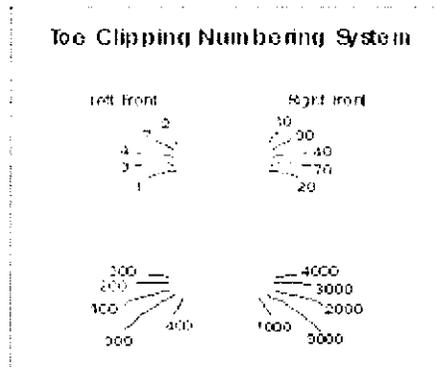


Figure 2-1. Lizard toe clipping numbering system.

Time-constrained pedestrian surveys consisted of a meandering walk around each site (50 meter radius), looking in areas where herps were likely to be basking, or laying in procrispis (hence searching was not totally “random”) and recording any herps observed. Data recorded included species, and sex (when discernable), age class, location relative to a particular array, distance from that array and any other notes regarding activities or behaviors (Appendix H).

Night driving consisted of driving accessible roads in the vicinity of sites/arrays beginning at dusk and continuing until well after dark. Data for herps sampled along the roadways included location (mileage along a particular road or a GPS reading), species, sex, age class, size (length(s) and mass), reproductive condition, and any behavioral or other (eg. laying beneath or adjacent to a particular shrub) associated metadata (Appendix H).

No herps were euthanized for a voucher collection, however, animals found dead in traps or dead on the road were collected and preserved. To provide a documentation of species observed, voucher digital photographs of each species were taken and archived.

Four sampling periods of herpetofaunal surveys were conducted; April 12-17, May 12-19, October 23-30 and November 13-19, 2008.

2.6 Vegetation

The dominant vegetation types were mapped at each of the 24 mammalian, herpetofaunal, invertebrate and avifaunal sampling areas. Vegetation mapping occurred during May to June, 2008. The sampling locations were outlined on geo-referenced aerial photos by starting at a known fixed point and outlining the target habitat as defined by the aerial photo until a 50m radius was reached using ArcGIS (Appendix I). Within each sampling location, rough habitat patches were identified by dominant vegetation species on the map and outlined. All outlined sampling areas and habitat patches were ground-truthed and adjusted if necessary. During ground-truthing dominant tree, shrub and

herbaceous species were identified in each habitat patch. The actual size (area in square meters) of the sampling location was calculated.

Total vegetation volume (TVV) was calculated from data collected at 20 randomly selected locations in each of the 24 sampling areas (Mills et al 1991). Total vegetation volume measures the number of 10 cm radius cylinders above a given point that have woody vegetation in them and has been a useful measure of habitat quality for breeding birds (Mills et al 1991). Efforts were made to encompass all vegetation types present at the sampling area by foregoing randomness in order to capture the overall picture. Herbaceous and woody vegetation was measured and included in the TVV analyses. TVV was measured by extending a 6 meter pole vertically through the vegetation. All vegetation touching the pole and within 0.1 meter radius was recorded for each decimeter section (Rotenberry 1985, Mills et al. 1991). The cover class of the vegetation was identified as herb (<0.5 m), shrub (woody stems, 0- 4 m), medium canopy (4- 6 m) and tall canopy (>6 m). Vegetation touching the pole above 6 meters was estimated using binoculars. If two or more plant species were present in the same section, the total number of hits in that layer were allotted between the plant species according to the relative dominance of each plant within that section. Total vegetation volume was calculated for each sampling location as $h/10p$; where h =the total number of hits summed over all sections at all points measured, and p = the number of points at which vegetation volumes were measured (Mills et al. 1991). Foliar diversity (FHD) was calculated for meter long sections using the standard Shannon-Weiner index $H' = -\sum p_i \ln p_i$, where p_i = the proportion of total vegetation hits found in the i^{th} meter layer. The percent cover was calculated as the percent hits occurring in each meter layer. Vegetation datasheets are located in Appendix J.

2.7 Data Analysis

A non-parametric multi-response Permutation Procedure (MRPP) was utilized in order to provide a statistical test of the similarity in species occurrence and numbers of individuals per species between sampling groups (habitat types) for each of the wildlife groups, including invertebrate, avifaunal, mammalian and herpetofaunal using PC-ORD Version 5 (McCune and Mefford 2006). The 2007 and 2008 sampling years were combined for invertebrate and avifaunal analyses. The Sørensen distance was used to calculate the average distance x_i within each group i . The methodology used in this procedure followed Mielke (1984) and Mielke and Berry (2001). Wetland and riparian sites were analyzed separately. Groups were defined by habitat type, for riparian habitats this included reference (BWRNWR), immature restored (YEW), mature restored (YWW), control (YEW); and wetland sites included reference (BWRNWR), Restored (YEW) and Control (YEW). An NMS ordination was utilized to graphically display the MRPP analysis when similarities between sites occurred. An indicator species analysis was conducted for the avifaunal community using PC-ORD Version 5 in order to detect if any species is a good indicator of habitat type (McCune and Mefford 2006). The indicator species analysis uses the Monte Carlo randomization technique. The Monte Carlo analysis for riparian avifauna used 4,999 randomizations.

A one-way analysis of variance (ANOVA) was used for an overall comparison of the variation between abundance and richness among the different habitats for each of the wildlife groups using SPSS statistical software (SPSS 2007). The 2007 and 2008 data were combined for both the invertebrate and avifaunal analyses. A Tukey HSD analysis was used to evaluate the variance among individual habitats. All tests were conducted at $\alpha=0.05$. Adjacent agricultural sites were left out of avifaunal statistical analyses due to small sampling size, however it is displayed graphically within the riparian habitat.

An independent t-test was utilized to compare total richness and relative abundance between the 2007 and 2008 sampling seasons for the invertebrate and avifaunal data. The test was conducted at $\alpha=0.05$. In the case that differences occurred, an independent t-test was utilized to compare total richness and relative abundance between the 2007 and 2008 sampling seasons within habitats.

A non-parametric Spearman's rho (r) test was utilized to look at the relationship between relative abundance and richness in wetland and riparian sites and TVV and FHD for each wildlife group. This test was utilized because the data sets did not satisfy the assumptions of parametric correlations analysis (constant variance and bivariate normality). Due to the low species richness detected for mammals and herpetofauna, richness was not used in the analyses for these groups. Also, a non-parametric Spearman's rho (r) test was utilized to look at the relationship between invertebrate species and avifaunal species. Invertebrates could not be correlated with herpetofauna since they were not collected at the same time.

A photo essay that documents the research collected during this project is located in Appendix P.

3.0 RESULTS

3.1 Invertebrates

Riparian Habitats

The MRPP analysis of riparian invertebrate species revealed that the riparian habitat types had similar species composition and abundance ($A=0.0051$, $p=0.07$, Figure 3-0) for the combined 2007- 2008 research seasons. The pairwise comparison showed that invertebrate species occurrence and abundance were similar in all sites with the exception of reference and agricultural sites ($A=0.009$, $p=0.028$) and control and agricultural sites ($A=0.01$, $p=0.029$, Figure 3-0). The invertebrate database with identifications to the lowest taxonomic level is located in Appendix K.

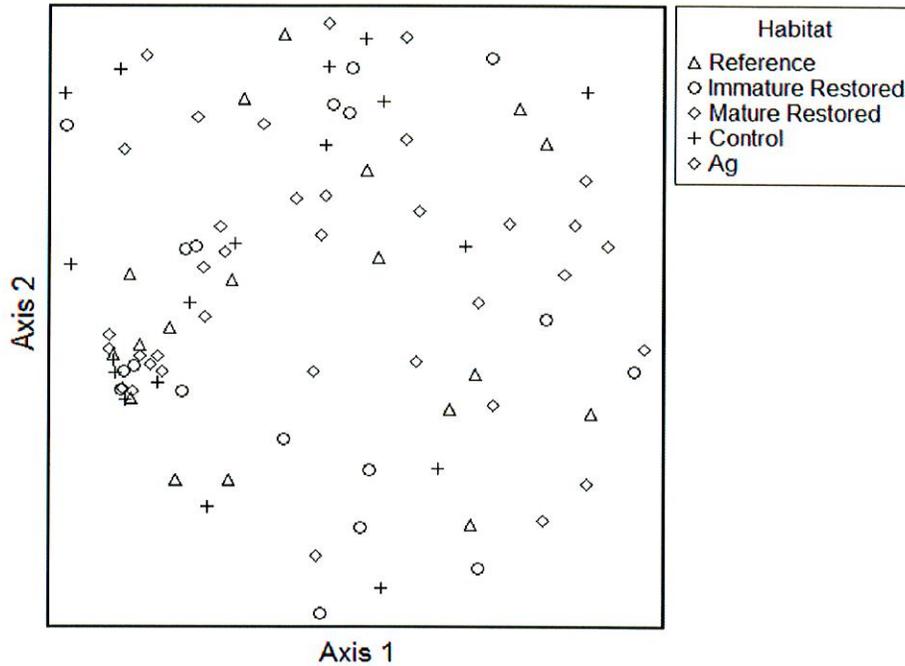


Figure 3-0. A two-dimensional NMS ordination plot of invertebrate species composition in the five riparian habitat types, including reference, immature restored, mature restored, control and adjacent agriculture for 2007-2008.

The one-way analysis of variance (ANOVA) tests revealed that there was no significant difference between invertebrate richness ($F=0.944$, $p=0.443$) or abundance ($F=1.022$, $p=0.400$) among riparian habitats for the 2007- 2008 combined research seasons (Figures 3-1 and 3-2). No significant difference was detected in richness or abundance between sites as indicated by the Tukey LSD test. The independent t-test revealed that species richness was significantly different between the 2007 and 2008 sampling seasons ($T=1.803$, $p=0.034$, $df=88$), however there was no significant difference detected between sampling years for relative abundance ($T=-1.823$, $p=0.082$, $df=88$). However, when t-tests were conducted to compare 2007 and 2008 invertebrate richness data for the individual habitats there were no significant differences detected.

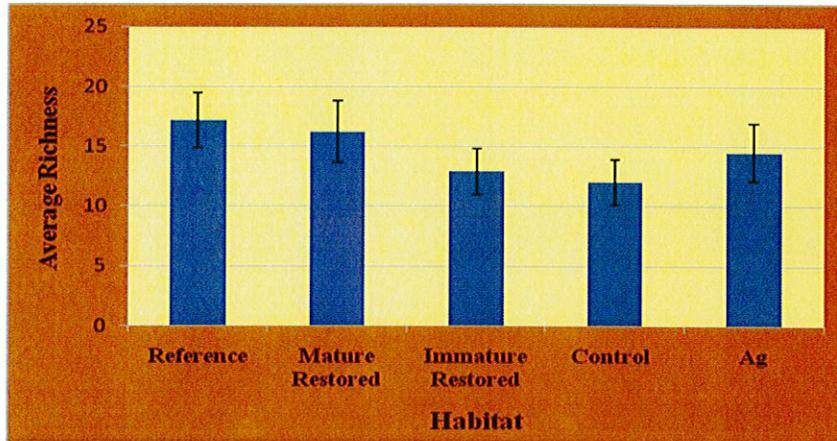


Figure 3-1. Average invertebrate species richness for the five riparian habitat types, all sampling methods combined, sampled in the YEW, YWW and BWRNWR during the 2007- 2008 research seasons ($F=0.944$, $p=0.443$). Error bars indicate standard error.

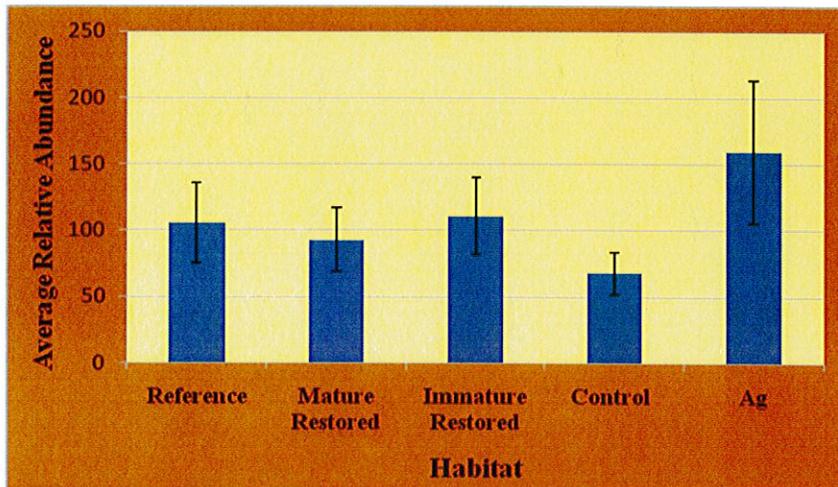


Figure 3-2. Average invertebrate species abundance for the five riparian habitat types, all sampling methods combined, sampled in the YEW, YWW, and BWRNWR during the 2007- 2008 research seasons ($F=1.022$; $p=0.400$). Error bars indicate standard error.

The Spearman’s Rho correlation analysis that tested for correlations between invertebrate richness and abundance with vegetation characteristics showed a significant relationship between FHD and invertebrate richness ($r=0.303$, $p=0.043$) and percent cover at the 5m layer and invertebrate richness ($r=0.375$, $p=0.011$) in the riparian sites. Invertebrate abundance showed no correlation with any of the vegetation characteristics of the sites.

Wetland Habitats

The MRPP analysis of wetland invertebrate species revealed that there was a significant difference in species composition between wetland habitat types ($A=0.0022$, $p=0.00005$) for the combined 2007- 2008 research seasons. The pairwise comparisons agreed with this finding, and showed that species occurrence and abundance were different between all sites (Figure 3-3).

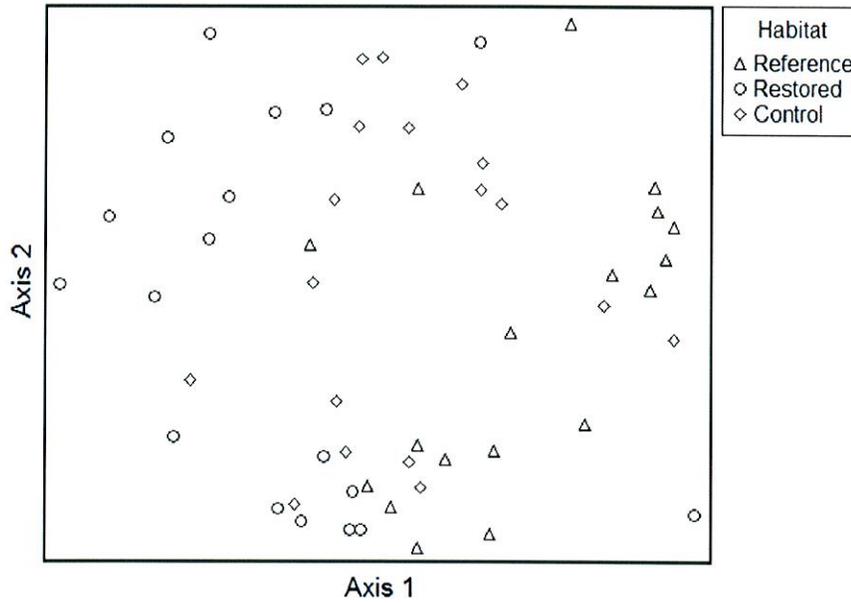


Figure 3-3. A two-dimensional NMS ordination plot of invertebrate species composition in the three wetland habitat types, including reference, restored, and control for 2007-2008.

The ANOVA showed that there was no significant differences between wetland habitats for invertebrate richness ($F=0.186$, $p=0.831$) or relative abundance ($F=0.116$, $p=0.890$) for the 2007- 2008 combined sampling seasons (Figures 3-4 and 3-5). The Tukey HSD test also revealed no significant difference among the three wetland habitats. The independent t-test showed that species richness ($T=0.240$, $p=0.476$, $df= 52$) and relative abundance ($T=-1.953$, $p=0.232$, $df=52$) were not significantly different between the 2007 and 2008 sampling seasons for all habitats combined.

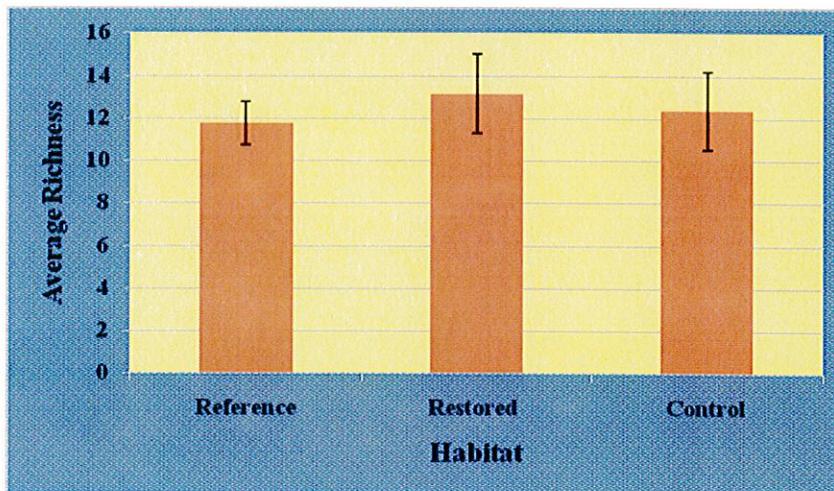


Figure 3-4. Average invertebrate species richness for the three wetland habitat types, all sampling methods combined, sampled in the YEW and BWRNWR during the 2007-2008 research seasons ($F=0.186$; $p=0.831$). Error bars indicate standard error.

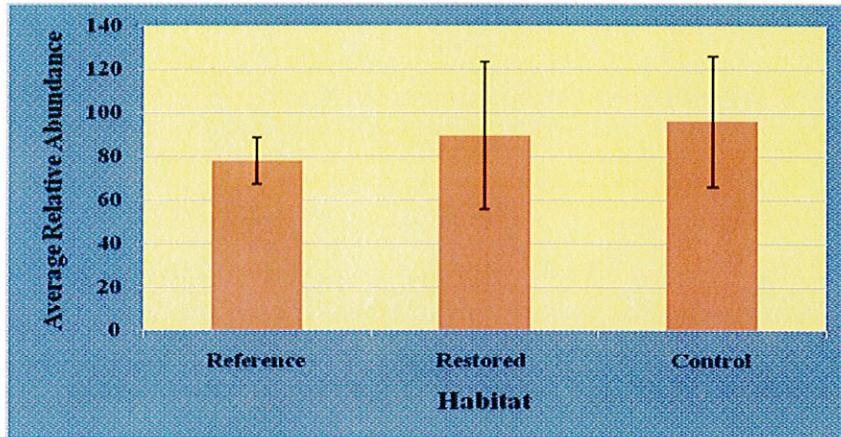


Figure 3-5. Average invertebrate species relative abundance for the three wetland habitat types, all sampling methods combined, sampled in the YEW and BWRNWR during the 2007-2008 research seasons ($F=0.116$; $p=0.890$). Error bars indicate standard error.

The Spearman’s rho correlation analysis showed a significant relationship between TVV and invertebrate richness ($r=0.418$, $p=0.030$) in the wetland sites. None of the vegetation characteristics correlated with invertebrate abundance.

3.2 Avifauna

Riparian Habitats

The MRPP analysis of riparian avifaunal species revealed that species composition was significantly different between habitat types ($A=0.0504$, $p<0.0001$) during the 2007-2008 research season. The pairwise comparison confirmed this difference and showed that no habitat types were similar. Since all sites were different from one another an ordination analysis and graph was not represented. An avifaunal species list for the YEW, YWW and BWRNWR is located in Appendix L.

The results from the ANOVA test revealed that overall avifaunal richness ($F=29.226$; $p<0.0001$) and abundance ($F= 18.250$; $p<0.0001$) differed among the four riparian habitat types for the combined 2007-2008 data (Figures 3-6 and 3-7). The reference riparian habitat had over 1.7 times greater avifaunal richness than control and immature restored sites, and only 1.2 times greater richness than mature restored sites. Also, reference riparian sites had 1.9 times higher relative abundance than control and immature restored and 1.4 times higher relative abundance than mature restored sites. No significant difference was detected between the control and immature restored sites for both avifauna richness ($p=0.852$) and abundance ($p=0.936$) as indicated by the Tukey HSD analysis (Figures 3-6 and 3-7). No significant difference in avifaunal relative abundance was detected between immature and mature riparian sites ($p=0.159$).

Twelve avifaunal species were detected utilizing the adjacent agricultural sites. Red winged blackbirds had the highest abundance in the agricultural sites, which increased

the average abundance detected (Figure 3-7). No birds were detected in 31% of the sampling periods conducted at the adjacent agricultural sites.

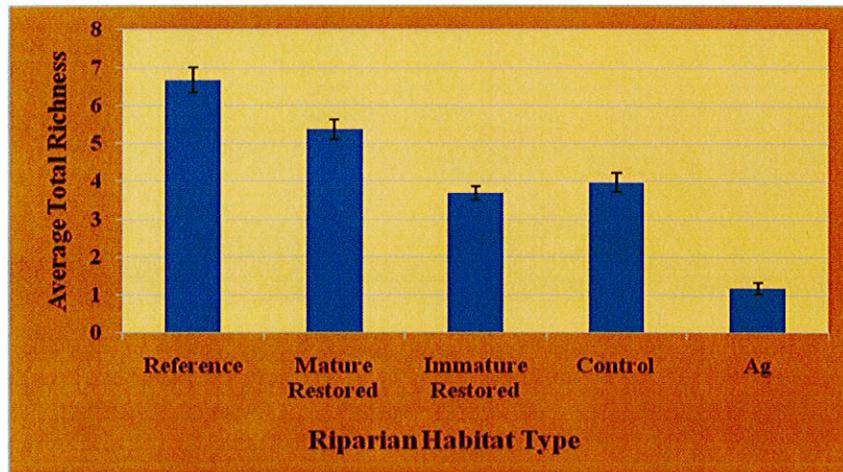


Figure 3-6. Average riparian avifaunal species richness for four habitat types, including reference, mature restored, immature restored, and control ($F=29.226$, $p<0.0001$). The adjacent agricultural (Ag) habitat was not utilized in the analysis. Error bars indicate standard error.

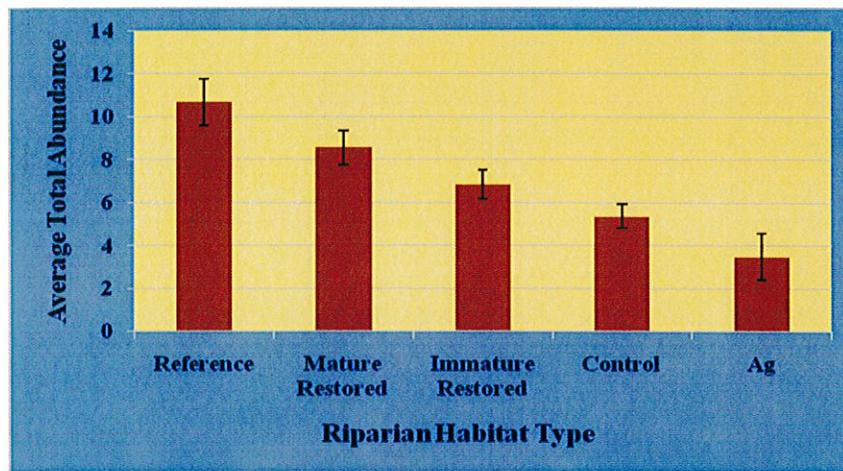


Figure 3-7. Average riparian avifaunal species relative abundance for four habitat types, including reference, mature restored, immature restored and control ($F=18.250$; $p<0.0001$). Adjacent agriculture (Ag) was not utilized in the analysis. Error bars indicate standard error.

The Spearman’s Rho correlation analysis showed no significant relationships between riparian avifaunal richness and relative abundance for any of the vegetation characteristics.

The indicator species analysis revealed that the reference site had more indicators of habitat than the other sites (Table 3-1). Some of the species detected at the reference site were not detected at the other riparian sites, including brown-crested flycatcher and Bewick’s wren. The brown crested flycatcher and yellow breasted chat are neo-tropical migrating birds that breed in mature riparian habitats and are indicators of healthy

riparian habitats. Other species that were indicators of the reference riparian habitat, such as Bewick's wren, Gila woodpecker, ladder-backed woodpecker, and song sparrow were detected in mature restored habitats in the YWW in lower numbers. Northern mockingbird and verdin were indicators of mature restored riparian habitats, however these species were detected in all other habitats. No indicator species were evident for the immature restored and control riparian habitats.

Species	Habitat	IV	p-value
Bewick's Wren	Reference	20.2	0.0002
Brown-Crested Flycatcher	Reference	20.2	0.0002
Gila Woodpecker	Reference	25.7	0.0002
Ladder-Backed Woodpecker	Reference	28	0.0002
Northern Mockingbird	Mature Restored	30.2	0.0002
Song Sparrow	Reference	59.9	0.0002
Verdin	Mature Restored	33.6	0.0002
Yellow-Breasted Chat	Reference	37.8	0.0002

Table 3-1. Significant avifaunal indicator species for riparian habitats for 2007- 2008 ($\alpha=0.05$). IV= indicator value, which is the % of perfect indication, based on combining values for relative abundance and frequency.

Differences in avifaunal richness and relative abundance between 2007 and 2008 were not conducted since more replicates were added to each habitat type during the 2008 sampling year.

Wetland Habitats

The results from the wetland avifaunal research showed that wetland habitats were significantly different in species richness ($F=5.547$, $p=0.004$) and species relative abundance ($F=7.221$, $p=0.001$) as suggested by the one-way ANOVA (Figures 3-8 and 3-9). Reference wetland sites had 3.2 times higher species richness than the restored wetland sites ($p=0.003$), and did not significantly differ from the control wetland sites ($p=0.515$) as indicated by the Tukey HSD analysis (Figure 3-8). However, the Tukey HSD analysis revealed that the restored and control wetland sites did not significantly differ in species richness ($p=0.077$).

The Tukey HSD analysis revealed that control wetland sites had over 2 times higher avifaunal relative abundance than the restored wetland ($p=0.002$) and reference wetland habitats ($p=0.005$, Figure 3-9). Reference and restored wetland habitats did not differ in avifaunal relative abundance ($p=0.957$). The high abundance in the control wetland sites was due to the high numbers of red winged blackbirds and yellow headed blackbirds detected. These high numbers were observed primarily at two sites, wetland control 1 and 2, where dense cattail islands located in a backwater channel provide nesting habitat for these species.

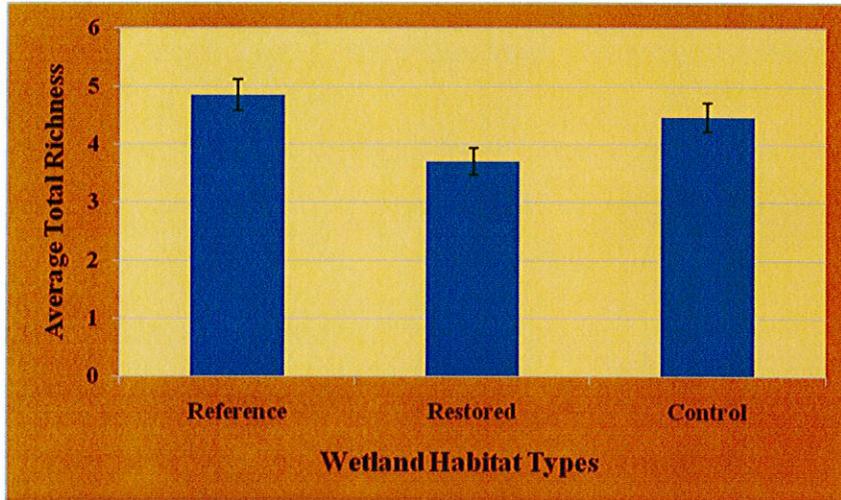


Figure 3-8. Average wetland avifaunal species richness for three habitat types, including reference, restored, and control for the combined 2007-2008 data ($F=5.547$; $p=0.004$). Error bars indicate standard error.

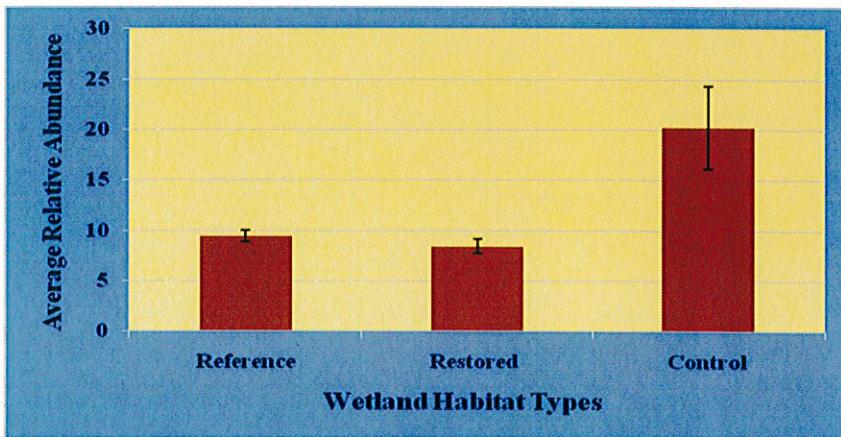


Figure 3-9. Average wetland avifaunal species abundance for three habitat types, including reference, restored, and control for combined 2007-2008 data ($F=7.221$; $p=0.001$). Error bars indicate standard error.

The MRPP analysis indicated that wetland avifaunal composition was significantly different between the three wetland sites ($A=0.0363$, and $p<0.0001$). The pairwise comparisons concurred with this finding. Since all sites were different from one another an ordination analysis and graph were not conducted.

The Spearman's Rho correlation analysis that tested for correlations between avifaunal richness with vegetation characteristics showed a significant relationship with FHD ($r=-0.272$, $p=0.047$), percent cover at the 1m layer ($r=0.295$, $p=0.03$) and the 4m layer ($r=-0.281$, $p=0.04$). Avifaunal abundance showed a significant relationship with FHD ($r=0.268$, $p=0.05$), percent cover at the 1m layer ($r=0.309$, $p=0.023$) and the 4m layer ($r=0.288$, $p=0.035$).

The indicator species analysis revealed that killdeer were the best indicator species for the restored wetlands. These birds are primarily affiliated with shoreline habitat, which is common of the area adjacent to the restored wetlands in the YEW. As habitats mature, the shoreline habitat is likely to adjust. Red winged blackbirds showed to be the indicator species for the control wetland sites. Avifauna that was identified as indicators of reference wetlands includes Clark's grebe, common yellowthroat, marsh wren, and Western grebe (Table 3-2). These species are more common to open water and wetland habitats.

Species	Habitat	IV	p-value
Clark's Grebe	Reference	24.6	0.0002
Common Yellowthroat	Reference	34.5	0.0002
Killdeer	Restored	22.7	0.0002
Marsh Wren	Reference	29.7	0.0002
Red Winged Blackbird	Control	25.3	0.0008
Western Grebe	Reference	31.9	0.0002

Table 3-2. Significant avifaunal indicator species for wetland habitats ($\alpha=0.05$) for 2007-2008. IV= indicator value, which is the % of perfect indication, based on combining values for relative abundance and frequency.

3.3 Invertebrate and Avifaunal Relationships

Riparian Habitats

The invertebrate UV samples were removed from the analyses in order to utilize invertebrates that were potential food sources for avifauna. Invertebrates were separated into orders, and ground dwelling invertebrates were excluded from the analysis. All analyses were conducted with avifaunal and invertebrate relative abundance. With all riparian sites combined, the results of the Spearman's Rho correlation analysis showed that hymenoptera were correlated with Bell's vireo ($r=0.214$, $p=0.043$), black phoebe ($r=0.208$, $p=0.049$), yellow breasted chat ($r=0.227$, $p=0.032$) and yellow warbler ($r=0.021$, $p=0.021$). Diptera were negatively correlated with brown-crested flycatcher ($r=-0.246$, $p=0.020$). Trichoptera were correlated with common yellowthroat ($r=0.287$, $p=0.006$) and Lucy's warbler ($r=0.303$, $p=0.004$). Hemiptera ($r=-0.271$, $p=0.010$) and homoptera ($r=-0.273$, $p=0.009$) were negatively correlated with verdin. Coleoptera were correlated with Lucy's warbler ($r=0.335$, $p=0.001$).

Wetland Habitats

In the wetland habitats with all sites combined, the results of the Spearman's Rho correlation analysis showed that hymenoptera were negatively correlated with black phoebe ($r=-0.342$, $p=0.011$). Homptera were correlated with common yellowthroat ($r=0.278$, $p=0.042$). The hemiptera were highly correlated with willow flycatcher ($r=0.714$, $p<0.0001$) and yellow rumped warbler ($r=0.687$, $p<0.0001$). All analyses were conducted with avifaunal and invertebrate relative abundance.

3.4 Mammals

Riparian Habitats

The overall MRPP analysis of riparian mammal species revealed that species occurrence and abundance was not similar between riparian habitat types ($A=0.1177$, $p=0.0004$) during the 2008 research season. However, the pairwise comparison showed that mammal species occurrence and abundance was similar in reference and immature restored riparian sites ($A=0.0202$, $p=0.1734$), immature and control restored riparian sites ($A=0.0224$, $p=0.1452$), immature restored and agricultural riparian sites ($A=0.0395$, $p=0.090$) (Figure 3-10).

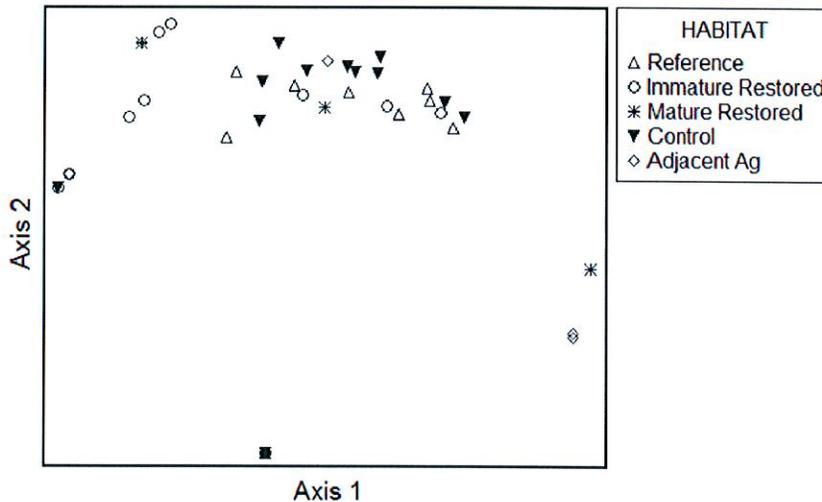


Figure 3-10. A two-dimensional NMS ordination plot of mammalian species composition in the five riparian habitat types, including reference, immature restored, mature restored, control and adjacent agriculture ($A=0.1177$, $p=0.0004$).

The one-way ANOVA test revealed that small mammal abundance ($F=8.736$, $p<0.0001$) and richness ($F=6.495$, $p<0.0001$) differed among the five riparian habitat types (Figures 3-11 and 3-12). The control sites on an average had 14 times higher abundance than mature restored sites and 1.3 times higher abundance than reference sites (Figure 3-12). The Tukey HSD post hoc tests showed that small mammal abundance in immature restored sites was not significantly different than reference ($p=0.470$), mature restored ($p=0.308$), or agricultural sites ($p=0.515$). Also, no significant difference was detected between reference and control sites ($p=0.696$) or between mature restored and agricultural sites ($p=0.996$).

The Tukey HSD post hoc tests showed that small mammal richness in immature restored sites was not significantly different than any of the other four sites, including reference ($p=0.659$), mature restored ($p=0.154$), control ($p=0.537$) and adjacent agriculture ($p=0.312$). Also, no significant difference in small mammal richness was detected between reference and control sites ($p=1.000$) or between mature restored and agricultural sites ($p=0.995$).

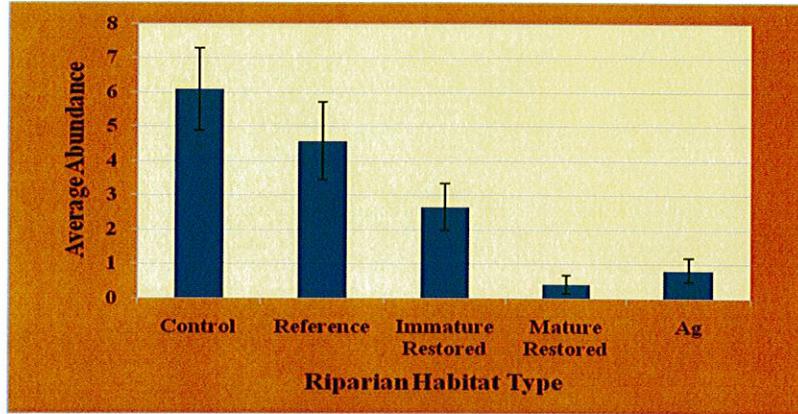


Figure 3-11. Average riparian small mammal abundance for five habitat types, including reference, mature restored, immature restored, control, and adjacent agriculture ($F=8.736$, $p<0.0001$). Error bars indicate standard error.

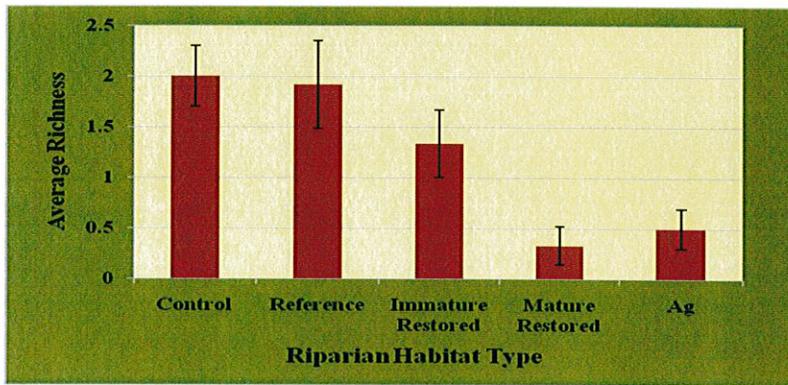


Figure 3-12. Average riparian small mammal species richness for five habitat types, including reference, mature restored, immature restored, control, and agriculture ($F=6.495$, $p<0.0001$). Error bars indicate standard error.

The correlation analysis showed a significant relationship between TVV and small mammal abundance ($r=0.447$, $p<0.0001$, $n=60$, Figure 3-13) and FHD and small mammal abundance ($r=0.318$, $p=0.013$, $n=60$) in the riparian sites. A relationship between mammal richness and the above mentioned factors was not tested due to the minimal numbers of mammal species detected.

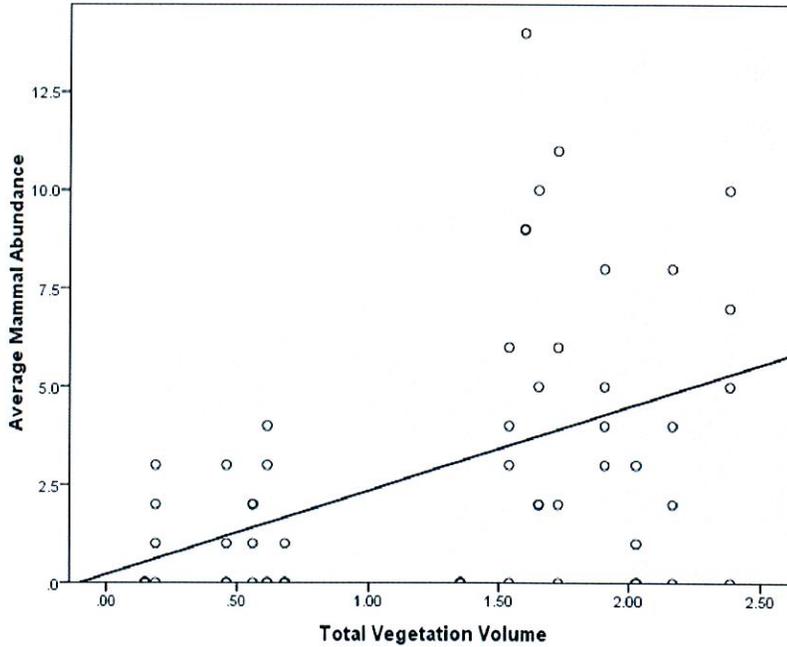


Figure 3-13. Relationship between average small mammal abundance and total vegetation volume at the five riparian habitat types, including reference, mature restored, immature restored, control, and agriculture ($r=0.447$, $p<0.0001$, $n=60$).

Cactus mice had the highest average abundance of all species in the riparian sites for the 2008 research season, with the exception of the agricultural sites (Figure 3-14). House mice had the highest average abundance in the agricultural sites. The reference and control sites had the highest average abundance of cactus mice, with over 4 times higher than desert pocket mice in the reference sites and 2.5 times higher than American deer mice in the control sites. A list of all large and small mammals detected in the riparian sites can be found in Appendix M.

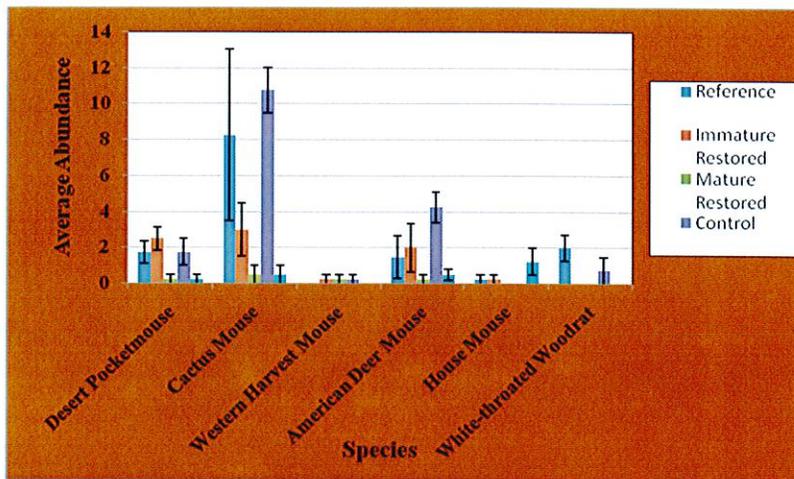


Figure 3-14. Average mammal species abundance for the 2008 research season in the riparian reference, mature restored, immature restored, control, and agriculture sites in the Yuma East Wetlands and Bill Williams National Wildlife Refuge. Error bars indicate standard error.

Wetland Habitats

The overall MRPP analysis for wetland mammal species revealed that species occurrence and abundance was significantly different between habitat types ($A=0.0657$, $p=0.0008$) during the 2008 research season. However, the pairwise comparison showed that restored and control wetland sites were similar ($A=0.023$, $p=0.1186$, Figure 3-15).

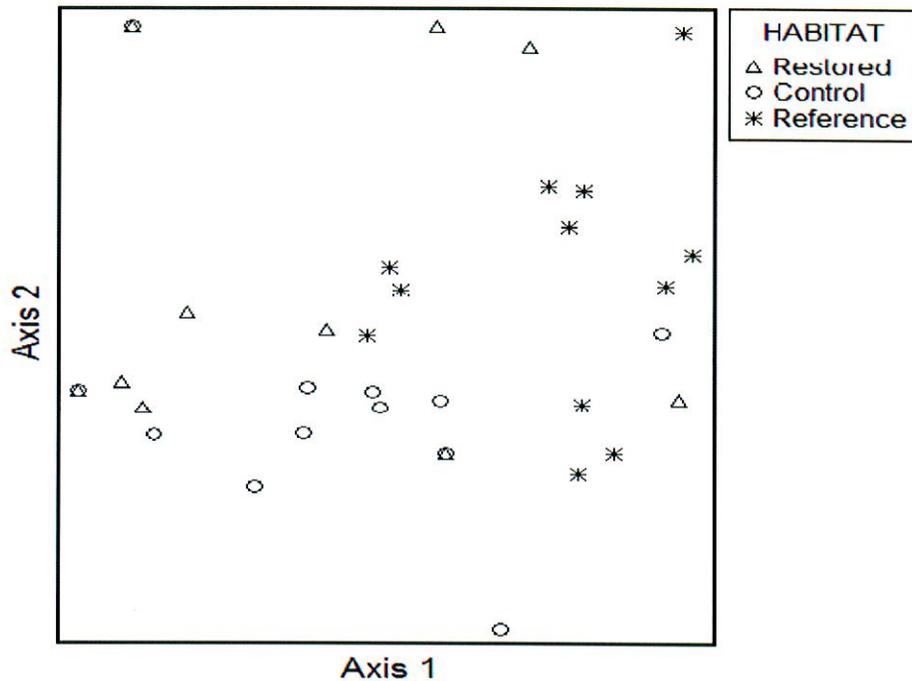


Figure 3-15. A two-dimensional NMS ordination plot of mammalian species composition in the three wetland habitat types, including reference, restored, and control ($A=0.0657$, $p=0.0008$).

The one-way ANOVA test revealed that small mammal abundance ($F=7.061$, $p=0.003$) and richness ($F=6.564$, $p=0.004$) differed among the three wetland habitat types (Figures 3-16 and 3-17). The Tukey HSD post hoc tests showed that small mammal abundance in the control wetland sites was not significantly different than reference ($p=0.210$) or restored sites ($p=0.122$). However, small mammal abundance was 4 times higher at the reference sites as compared to the restored sites ($p=0.002$, Figure 3-17).

The Tukey HSD post hoc tests showed that small mammal richness in the control sites was not significantly different from the reference sites ($p=0.311$) or the restored sites ($p=0.101$). However, small mammal richness was 2 times higher at the reference sites as compared to the restored sites ($p=0.002$, Figure 3-16).

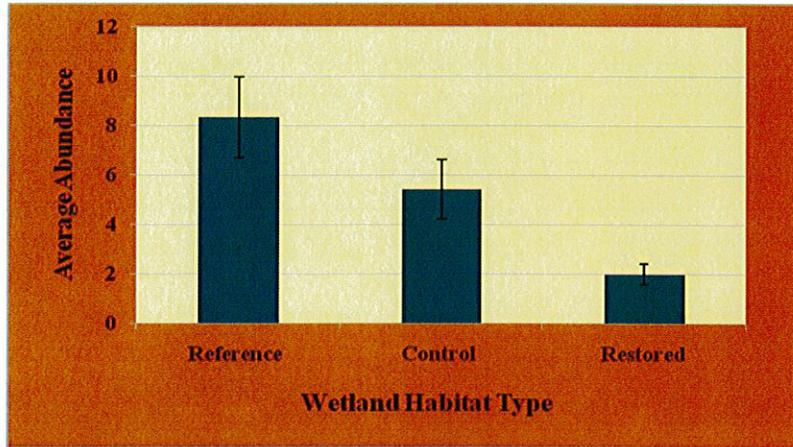


Figure 3-16. Average wetland small mammal abundance for three habitat types, including reference, restored, and control ($F=7.061$, $p=0.003$). Error bars indicate standard error.

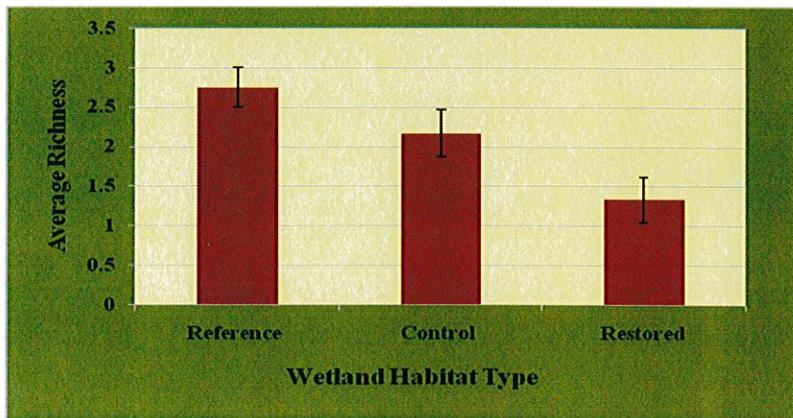


Figure 3-17. Average wetland small mammal species richness for three habitat types, including reference, restored, and control ($F=6.564$, $p=0.004$). Error bars indicate standard error.

The correlation analysis did not show a significant relationship between small mammal abundance and TVV ($r=0.182$, $p=0.144$) or FHD ($r=0.198$, $p=0.124$). A relationship between mammal richness and the above mentioned factors was not tested due to the minimal numbers of mammal species detected.

Cactus mice had the highest average abundance in the reference wetland sites, with 2.3 times higher average abundance than house mice (Figure 3-18). American deer mice had the highest average abundance in the control and restored sites, with over 3 times higher average abundance than cactus mice in the control sites and 2 times higher average abundance than house mice in the restored wetland sites. Two juvenile spotted skunks were caught in the traps at the reference wetland sites, however they were not processed for morphological characteristics. Two hispid cotton rats were detected in the control wetland site in the Yuma East Wetlands, which was most likely the Yuma subspecies (Subspecies: *eremicus*) based on the location. This subspecies is of interest, because their current distribution is unknown. Their preferred habitat is native wetland species such cattail, bulrush and phragmites. Since their habitat has been degraded and exterminated in

many areas, it is of interest to see if this species has occupied other habitats or moved to habitats that they did not previously occupy. A list of all large and small mammals detected in the wetland sites can be found in Appendix M.

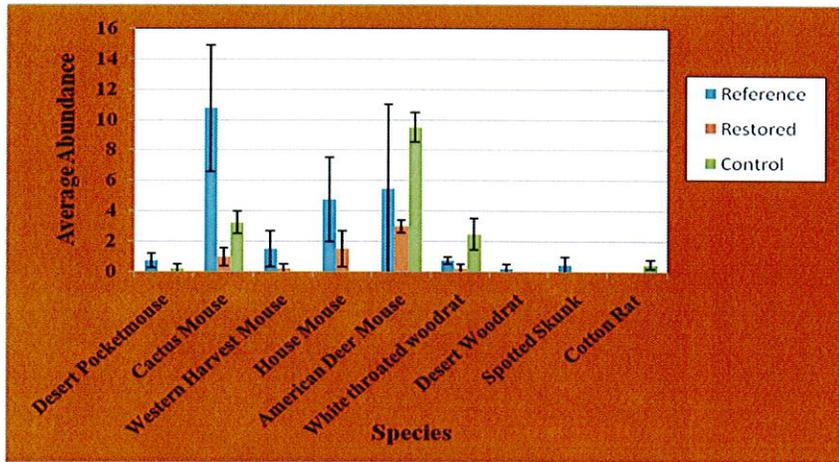


Figure 3-18. Average mammal species abundance for the 2008 research season in the wetland reference, restored, and control sites in the Yuma East Wetlands and Bill Williams National Wildlife Refuge. Error bars indicate standard error.

3.5 Herpetofauna

Data reported are for riparian and wetland sampling sites. During spring sampling no herpetofauna (herps) were captured in arrays installed at Adjacent Agriculture sampling sites. During fall sampling periods (October and November sampling) Adjacent Agriculture sites were not sampled because the fields had been recently tilled and harvesting activities prevented the installment of the arrays. Therefore the adjacent agriculture results were not utilized in the analyses.

Eleven species of herpetofauna were captured at the sampling sites, with several other species observed near the arrays (Appendix N). Five lizard species captured in arrays included Western Whiptail (*Aspidoscelis tigris*), Side-blotched lizard (*Uta stansburiana*), Long-tailed Brush Lizard (*Urosaurus graciosus*), Tree Lizard (*Urosaurus ornatus*) and Desert Spiny Lizard (*Sceloporus magister*). One additional species was observed near arrays at Bill Williams River National Wildlife Refuge (BWRNWR), but not captured in arrays. Zebra-tailed Lizards (*Callisaurus draconoides*) were observed in the desert gravel flats between the BWRNWR road and the arrays, which were located in the cattail adjacent to the Bill Williams River (reference wetland). The three species of snakes captured in arrays were all from the matured restored sampling sites at the Yuma West Wetlands where California Kingsnake (*Lampropeltis getula*), Western Threadsnake (*Leptotyphlops humilis*) and Long-nosed Snake (*Rhinocheilus lecontei*) were encountered. A restoration worker in the Yuma East Wetlands also brought in a Western Threadsnake incidentally captured on-site (in his shirt), and workers reported sighting a rattlesnake, likely a Western Diamondback (*Crotalus atrox*) at the Yuma East Wetlands as well. Amphibians captured in buckets included three toad species; Woodhouse’s Toad (*Bufo woodhousei*) at an immature restored riparian site in the Yuma East Wetlands and at the reference riparian sites at BWRNWR, Red-spotted toad (*Bufo punctatus*) at

reference riparian and reference wetland sites, and an Arizona Toad (*Bufo microscaphus*) at a reference riparian site. Two other amphibian species were heard and observed; Bullfrogs (*Rana catesbeiana*) at the Yuma West Wetlands were heard calling and tadpoles were observed in the wetland and a Rio Grande Leopard Frog (*Rana berlandeiri*) was observed at the Yuma East Wetlands. Neither of these frogs are native species. Among the above captures, more than three quarters (76%) were in riparian versus wetland (24%) habitats (Figure 3-19).

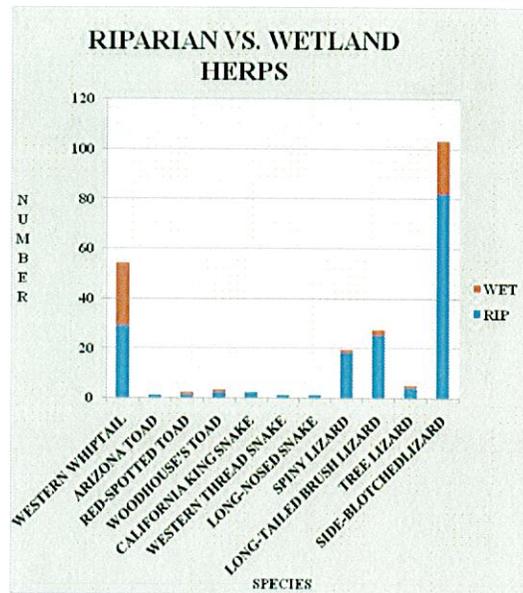


Figure 3-19. Herptefauana captures in riparian versus wetland habitats pooled for all sites and seasons sampled during the 2008 season.

Herp capture rates were dominated by five lizard species (95% of total captures), so many of the data presented below are limited to these common lizards. Lizard capture rates were highest during May and October, lower during April, and lowest during the November sampling period (Figure 3-20).

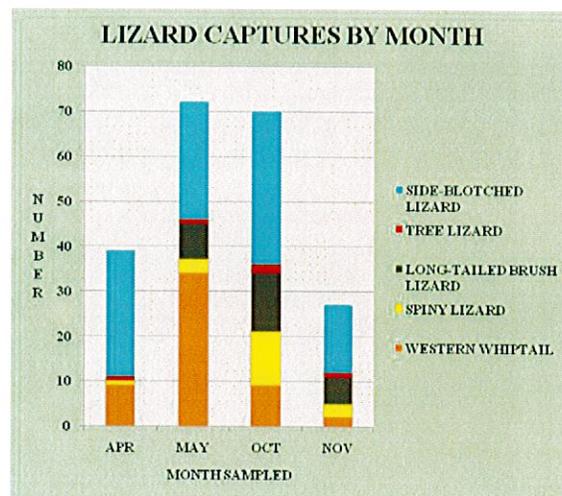


Figure 3-20. Lizard captures by sampling period (month) pooled for all sites sampled during the 2008 season.

During spring sampling adult and sub-adult lizards were captured almost exclusively in both riparian and wetland areas, while during fall sampling juvenile and hatchling lizards were more abundant (Appendix O), particularly for the abundant Side-blotched Lizard and the less common Long-tailed brush lizard. During the November sampling period, 36% of Side-blotched lizards and 50% of Long-tailed Brush lizards captured belonged to either the juvenile or hatchling age class. The juvenile age class was most abundant (82%) among Spiny Lizards captured during all seasons. Among the few Tree Lizard captures all were adults. No hatchling Western Whiptails were captured, but a few juveniles were captured during fall sampling periods.

Riparian Habitats

All eleven herp species captured at study sites during the course of the study were present in arrays in riparian sites (Figure 3-21). Among the common lizard species, Side-blotched lizards were the most abundant in all seasons, but least common late in the year, during November. Western Whiptails were most abundant during spring sampling, and the congeneric Long-tailed Brush Lizards and Tree Lizards (although capture rates were low relative to the two above species) were most abundant during October sampling.

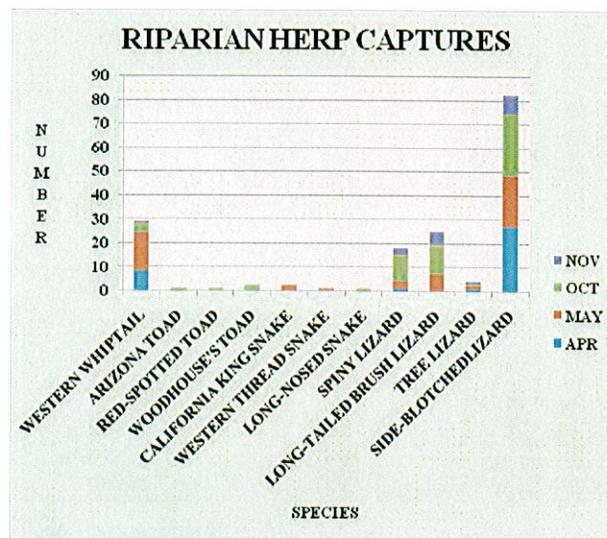


Figure 3-21. Herpetofauna captures pooled for riparian habitats with seasons sampled displayed as different colors in the bars, during the 2008 season. The values on the ordinate are identical to those in Figure 3-10, for comparative purposes.

A MRPP analysis of riparian herp species revealed that species occurrence and abundance were similar between the four riparian habitat types during the 2008 research season ($A=0.0536$, $p=0.0211$, Figure 3-22). The pairwise comparison showed that all sites were similar with the exception of reference and control riparian sites ($A=0.0867$, $p=0.01$) and reference and mature restored riparian sites ($A=0.079$, $p=0.01$).

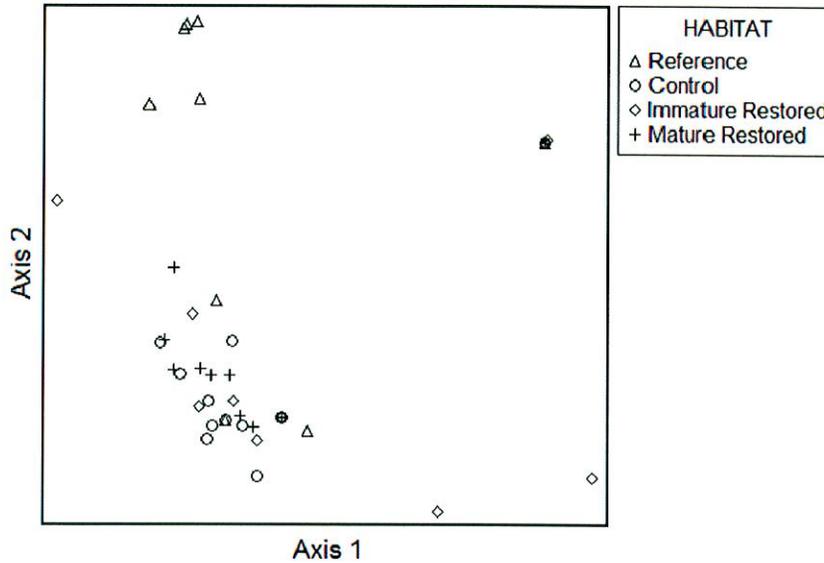


Figure 3-22. A two-dimensional NMS ordination plot of herpetofaunal species composition in the four riparian habitat types, including reference, immature restored, mature restored and control (A=0.0536, p=0.0211).

The one-way ANOVA test revealed that herp abundance ($F=5.059$, $p<0.002$) and richness ($F=6.995$, $p<0.0001$) differed among the five riparian habitat types (Figures 3-23 and 3-24). The control and mature restored sites on an average had more than double the abundance of reference sites and half again the abundance of immature restored sites. (Figure 3-24). The Tukey HSD post hoc tests showed that herp abundance in immature restored sites was not significantly different than reference ($p=0.880$), mature restored ($p=0.880$), control ($p=0.647$) or agricultural sites ($p=0.515$). Also, no significant difference was detected between reference and control sites ($p=0.156$) but there was a difference between mature restored and agricultural sites ($p=0.004$) and between control and agricultural sites ($p=0.002$).

The Tukey HSD post hoc tests showed that herp richness in immature restored sites was not significantly different than reference ($p=0.941$), mature restored ($p=0.332$), control ($p=0.676$), but was different than adjacent agriculture ($p=0.47$). Other significant differences in small mammal richness were detected between agricultural and control sites ($p=0.001$) and agricultural and mature restored ($p<0.0001$) sites.

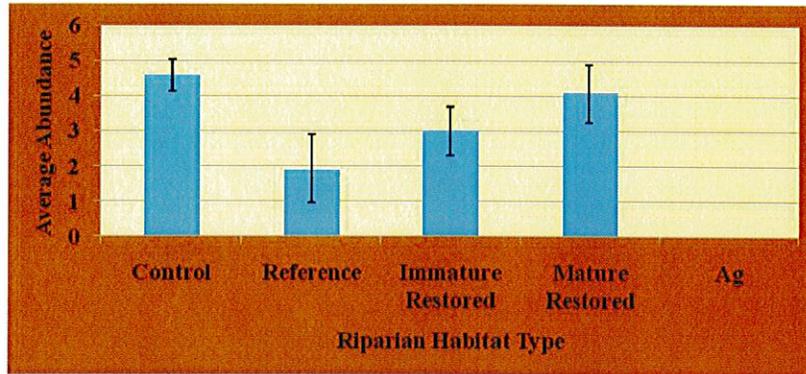


Figure 3-23. Average riparian herpetofaunal abundance for five habitat types, including reference, mature restored, immature restored, control, and adjacent agriculture ($F=5.059$, $p<0.002$). Error bars indicate standard error.

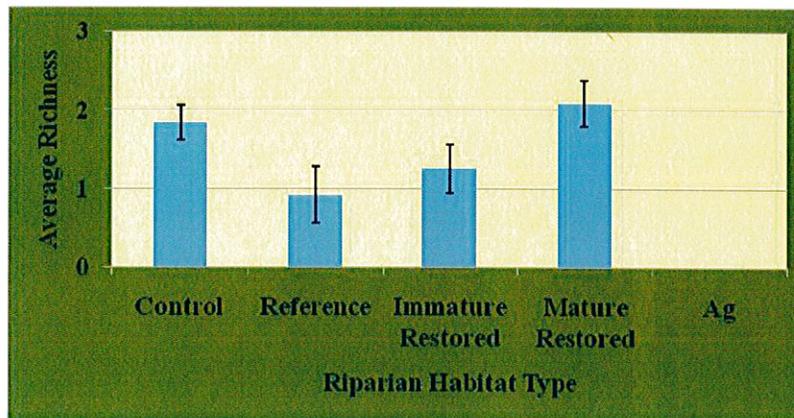


Figure 3-24. Average riparian herpetofaunal species richness for five habitat types, including reference, mature restored, immature restored, control, and agriculture ($F=6.995$, $p<0.0001$). Error bars indicate standard error.

The correlation analysis did not show a significant relationship between herp abundance and TVV ($r=0.109$, $p=0.463$, $n=48$) or FHD ($r=0.227$, $p=0.121$, $n=48$). Neither did the correlation analysis show a significant relationship between herp richness and TVV ($r=0.214$, $p=0.143$, $n=48$) or FHD ($r=0.082$, $p=0.581$, $n=48$).

Wetland Habitats

Seven of the eleven herp species found at sites during the course of the study were present in arrays in wetland sites (Figure 3-25). While Side-blotched lizards were represented across all seasons, Western Whiptails were most abundant at wetland sites overall (48% of captures), and were the most abundant species during May sampling. Western Whiptails and Side-blotched lizards combined accounted for 88% of all captures at wetland sites.

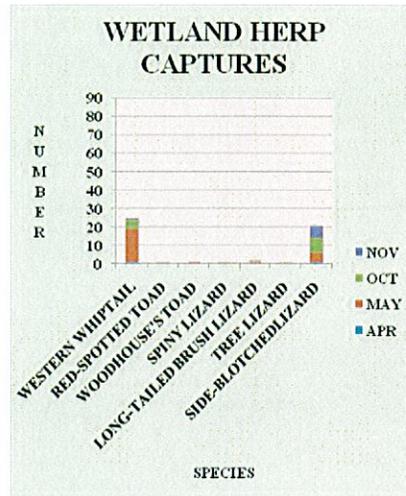


Figure 3-25. Herp captures pooled for wetland habitats with seasons sampled displayed as different colors in the bars, during the 2008 season.

A MRPP analysis of wetland herp species revealed that species occurrence and abundance were similar between the three wetland habitat types during the 2008 research season ($A=0.05$, $p=0.075$, Figure 3-26). The pairwise comparison confirmed this similarity showing that all wetland sites were similar.

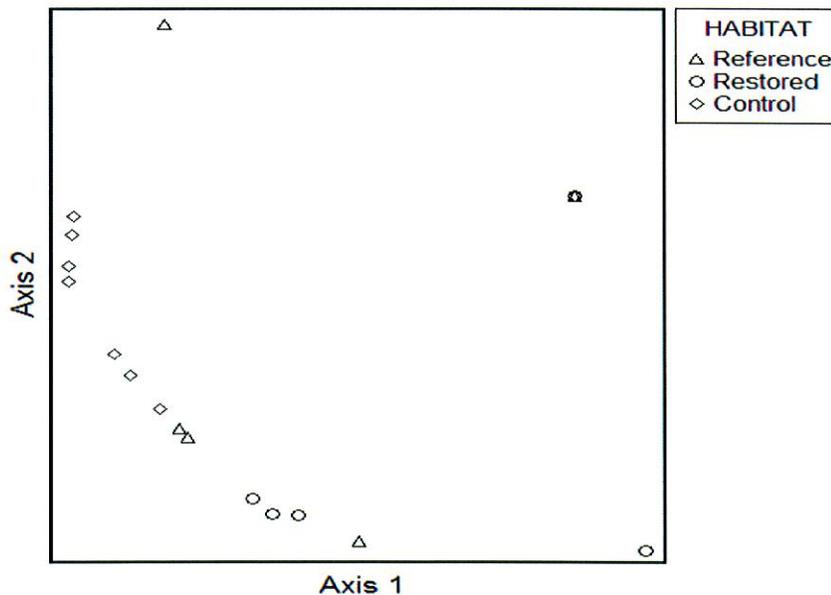


Figure 3-26. A two-dimensional NMS ordination plot of herpetofaunal species composition in the four riparian habitat types, including reference, immature restored, mature restored and control ($A=0.05$, $p=0.075$).

In concurrence with the MRPP analysis revealing the similarity between wetland habitat type species occurrence and abundance, the one-way ANOVA test revealed that herp abundance ($F=1.198$, $p=0.315$) and richness ($F=1.367$, $p=0.269$) did not differ among the three wetland habitat types (Figures 3-27 and 3-28). The Tukey HSD post hoc tests showed that herp abundance in the control wetland sites was not significantly different

than reference ($p=0.608$) or restored sites ($p=0.289$), and that reference and restored sites did not differ ($p=0.835$). However, herp abundance was 2.6 times higher at the control sites as compared to the restored sites, even though this was not statistically significant.

The Tukey HSD post hoc tests showed that herp richness in the control sites was not significantly different from the reference sites ($p=0.400$) or the restored sites ($p=0.291$) and that herp richness in reference sites was not significantly different from restored sites ($p=0.974$).

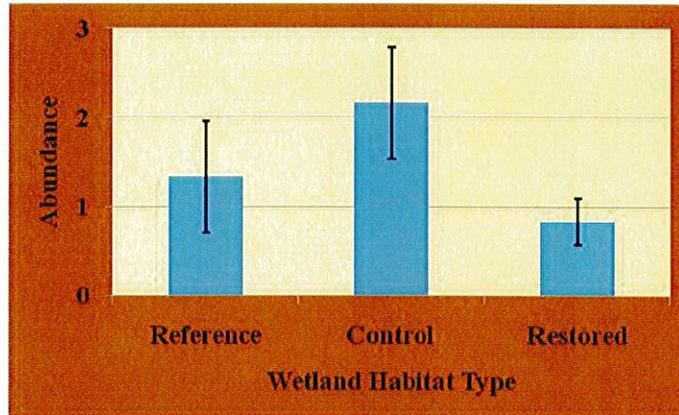


Figure 3-27. Average wetland herpetofaunal abundance for three habitat types, including reference, restored, and control ($F=1.198$, $p=0.315$). Error bars indicate standard error.

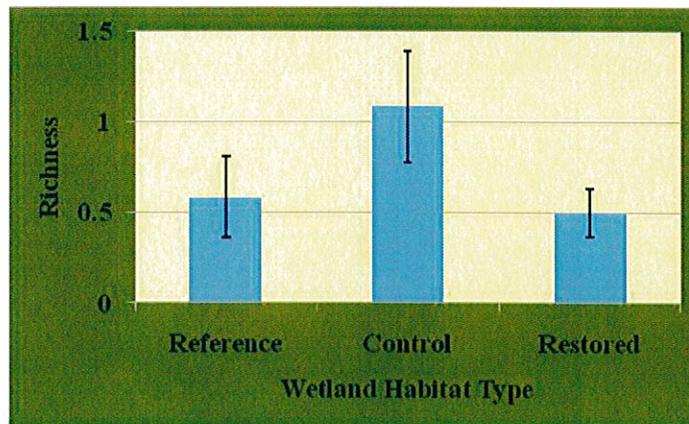


Figure 3-28. Average wetland herpetofaunal species richness for three habitat types, including reference, restored, and control ($F=1.367$, $p=0.269$). Error bars indicate standard error.

The correlation analysis did not show a significant relationship between herp abundance and TVV ($r=-0.077$, $p=0.654$, $n=36$) or FHD ($r=0.280$, $p=0.098$, $n=36$). Neither did the correlation analysis show a significant relationship between herp richness and TVV ($r=-0.098$, $p=0.570$, $n=36$) or FHD ($r=0.313$, $p=0.063$, $n=36$).

3.6 Vegetation

Habitat Mapping

The results for the habitat mapping at each site are located in the following table.

Site	Habitat	Total Hectares
Reference Riparian	Cottonwood/Willow/ Tamarisk	2.01
	River	0.27
	Cliff	0.03
Restored Immature Riparian	Cottonwood/Willow/ Mesquite	1.61
	Phragmites	0.1
	Road	0.1
	Palo Verde/Ironwood	0.16
	Mesquite/Arrowweed	0.17
	Arrowweed	0.06
Restored Mature Riparian	Cottonwood/Willow/ Mesquite	1.71
	Phragmites	0.18
	Trail	0.04
	Open	0.22
	Channel	0.06
	Marsh	0.04
Control Riparian	Tamarisk	1.74
	Phragmites	0.32
	River	0.07
Adjacent Agriculture	Alfalfa	1.45
	Wheat	0.76
	Road	0.18
Reference Wetland	Cattail	1.1
	Marsh Fleabane	0.01
	Tamarisk	0.06
	Water	1.13
Restored Wetland	California Bulrush	0.94
	Inland Saltgrass	0.33
	Sprangletop	0.13
Restored Wetland	Cottonwood/Willow	0.26
	Phragmites	0.14
	Water	0.05
Control Wetland	Cattail	0.85
	Tamarisk	0.34
	Phragmites	0.27
	Water	0.93

Table 3-3. Total hectares for the different habitat types in each of the eight research sites, including reference riparian, restored immature riparian, restored mature riparian, control riparian, adjacent agriculture, reference wetland, restored wetland, and control wetland sites.

Riparian Habitats

Total vegetation volume was significantly different for the five riparian sites as indicated by the one-way ANOVA test ($F=5.919$, $p=0.010$, Figure 3-29). The Tukey HSD test revealed that TVV in the agricultural sites was significantly different from the reference riparian ($p=0.007$) and control sites ($p=0.045$). However, with the exception of the agricultural sites, there was no significant difference in TVV between the riparian sites. Vegetation volume was only measured up to 6m in height, therefore the total vegetation volume of the tall canopy trees in the reference and mature restored riparian sites was not represented. This included many of the tall canopy native cottonwood and Goodding willow trees. Tamarisk showed the highest total vegetation volume for the reference sites with $TVV=1.05$. Goodding willow and cottonwood had the next highest TVV at the reference riparian sites, $TVV= 0.72$ and 0.2 respectively. Goodding willow and cottonwood was noted as the canopy above 6 m in 68% of points surveyed for total vegetation volume. In the restored mature riparian sites, Goodding willow, cottonwood and phragmites had the highest total vegetation volume, $TVV= 0.25$, 0.19 and 0.19 respectively. Cottonwood, phragmites and arrowweed had the highest total vegetation volume in the immature restored riparian sites, with $TVV= 0.26$, 0.20 , and 0.17 respectively. Tamarisk had the highest TVV in the control riparian sites ($TVV= 1.19$) and alfalfa had the highest TVV in the adjacent agriculture sites ($TVV= 0.28$).

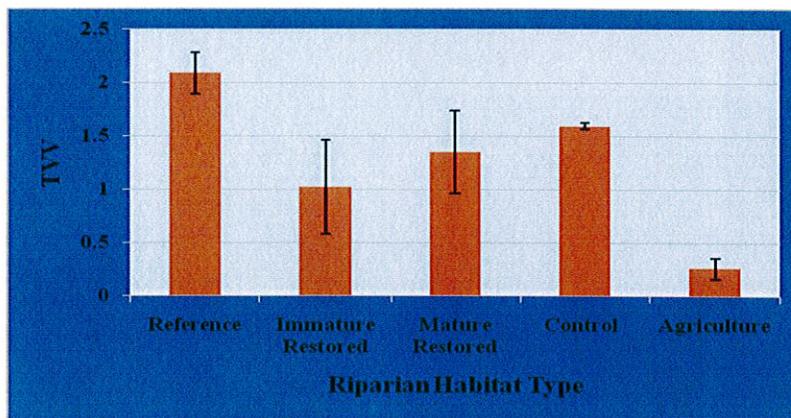


Figure 3-29. Average Total vegetation volume (TVV) for reference, restored mature, restored immature, and control riparian sites and adjacent agriculture sites at the Yuma East and West Wetlands and Bill Williams National Wildlife Refuge. Error bars indicate standard error.

There was no significant difference in foliar height diversity (FHD) among the riparian sites ($F=2.710$, $p=0.115$, Figure 3-30). Adjacent agriculture was removed from the analysis because all the diversity at these sites occurred within the 0-1 m layer, therefore the FHD was 0. Foliar height diversity measures the vertical habitat diversity, where the proportion of foliage density is measured in each stratum or, in this study, every meter section, and the diversity of foliar density is calculated using the Shannon Index (H').

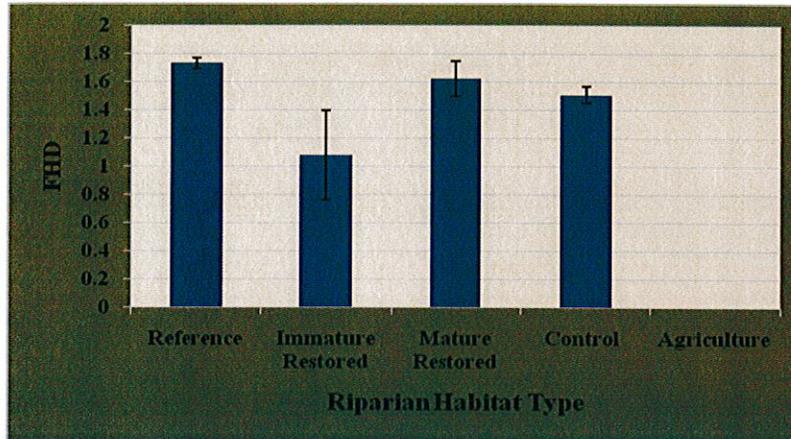


Figure 3-30. Average Foliar Height Diversity (FDH, H') for reference, restored mature, restored immature, and control riparian sites and adjacent agriculture sites at the Yuma East and West Wetlands and Bill Williams National Wildlife Refuge. Error bars indicate standard error.

Habitats were identified in the different cover classes including: herbaceous, shrub, medium canopy and tall canopy. Within these cover classes vegetation, duft, woody debris, and open water were considered different habitat types since different wildlife species take advantage of these different habitat types. Reference and restored mature riparian sites had similar habitat diversities, while the immature restored and control riparian sites had similar habitat diversity (Figure 3-31). Adjacent agriculture showed the lowest habitat diversity. Vegetation species diversity was highest in restored mature and immature riparian sites (Figure 3-32). The control and agricultural sites were similar in species diversity.

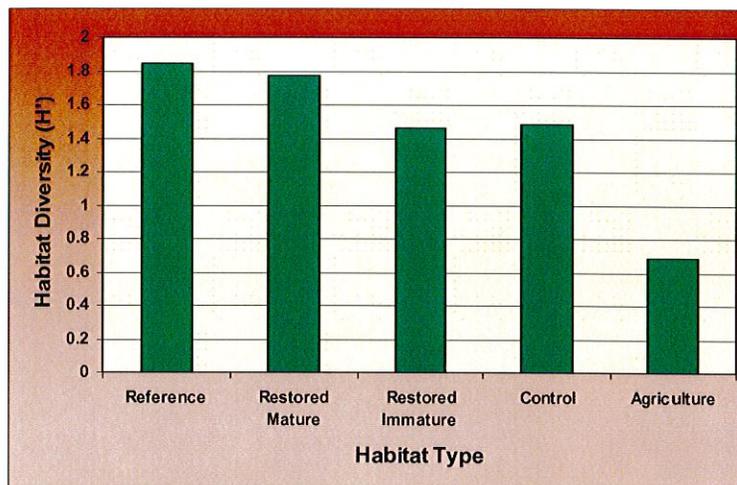


Figure 3-31. Habitat Diversity (H') for reference, restored mature, restored immature, and control riparian sites and adjacent agriculture sites at the Yuma East and West Wetlands and Bill Williams National Wildlife Refuge.

The immature restored riparian sites had the highest species diversity of the riparian sites. These habitats were planted with a variety of native species, including riparian species such as cottonwood, willow, and mesquite. Also, in areas where the depth to water was

deep, other more drought tolerant species such as ironwood and palo verde were planted, which contributed to the high species diversity. These areas were naturally colonized by other native species such as salt heliotrope, western sea purslane and arrowweed. The restored mature sites were planted with cottonwood, willow and mesquite, and also had the natural colonization of native species. This contributed to the high species diversity of this site. The riparian area at the reference site in Bill Williams NWR primarily consisted of cottonwood, Goodding willow and tamarisk. The more upland species such as mesquite and palo verde grew on the edge of the riparian area and was not detected in the surveys. The control sites primarily consisted of a monoculture of tamarisk and the agricultural sites were primarily the crop that was planted, alfalfa or wheat, with some invading weeds.

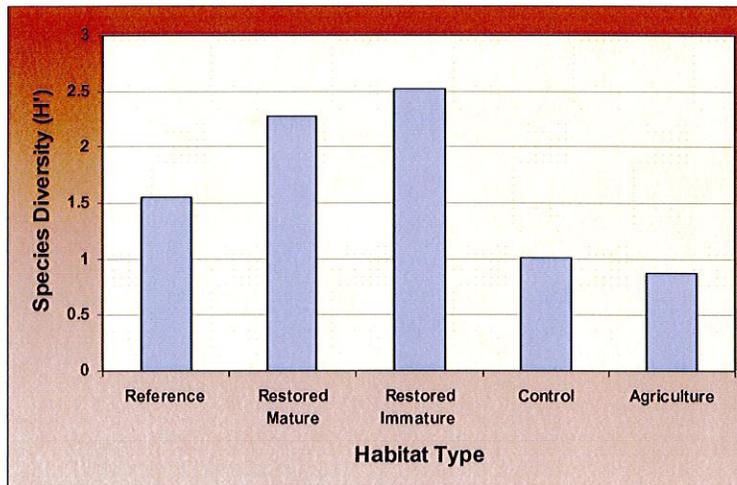


Figure 3-32. Vegetation Species Diversity (H') for reference, restored mature, restored immature, and control riparian sites and adjacent agriculture sites at the Yuma East and West Wetlands and Bill Williams National Wildlife Refuge.

Percent vegetation cover was calculated for each meter layer separately. For each riparian habitat type, with the exception of the restored mature and restored immature riparian sites, the 0 meter layer (0-1 meter) had the highest percent vegetation cover. The vegetation cover in the reference riparian at the 0 meter layer was 41%, for control riparian 65%, and for adjacent agriculture 19%. The restored mature sites had the highest cover in the 1 meter layer (1- 2 meter) at 29%, and the immature restored riparian had the highest cover in the 3 meter layer (3-4 meter) at 48%. Overall the reference riparian habitat had the highest cover for each of the 6 meter layers. However, the control riparian sites had the highest cover in the 0- 2 meter layers, which were 65%, 57%, and 46% for the three sites surveyed.

Wetland Habitats

Total vegetation volume was not significantly different between the three wetland sites ($F=2.466$, $p=0.165$, Figure 3-33). Cattail ($TVV=0.833$) and phragmites ($TVV=0.78$) had the highest total vegetation volume of any species in the control wetland sites, however tamarisk had the third highest total vegetation volume of 0.29. California bulrush had the highest total vegetation volume ($TVV=0.85$) of all vegetation species in the restored

wetland sites, and cattail had the highest total vegetation volume in the reference sites (TVV=1.90).

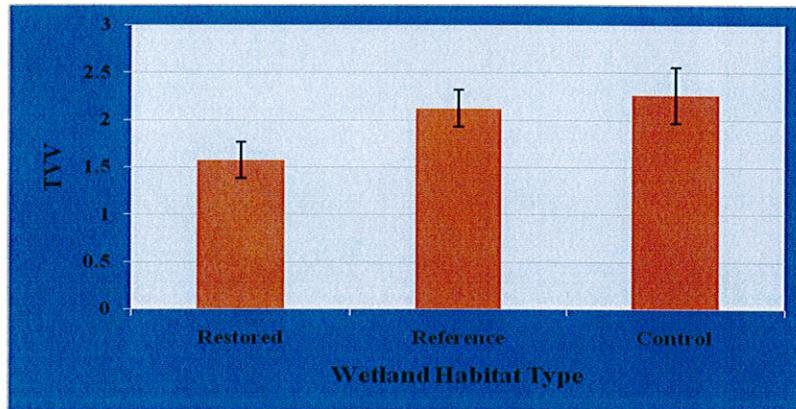


Figure 3-33. Average Total vegetation volume (TVV) for reference, restored, and control wetland sites at the Yuma East Wetlands and Bill Williams National Wildlife Refuge. Error bars indicate standard error.

The foliar height diversity was significantly different for the three wetland sites ($F=15.671$, $p=0.004$, Figure 3-34). The Tukey HSD test revealed that the restored habitats and the control habitat had significantly different FHD ($p=0.003$). The high foliar height diversity observed in the control wetland sites was primarily due to the high growing tamarisk and phragmites that provided a diverse canopy of vegetation. Cattail primarily dominated the vegetation in the reference wetland sites, and was not observed growing over 3m in height. The restored wetland sites were dominated by lower lying vegetation such as native California bulrush and other native wetland species, which contributed to the lower foliar height diversity.

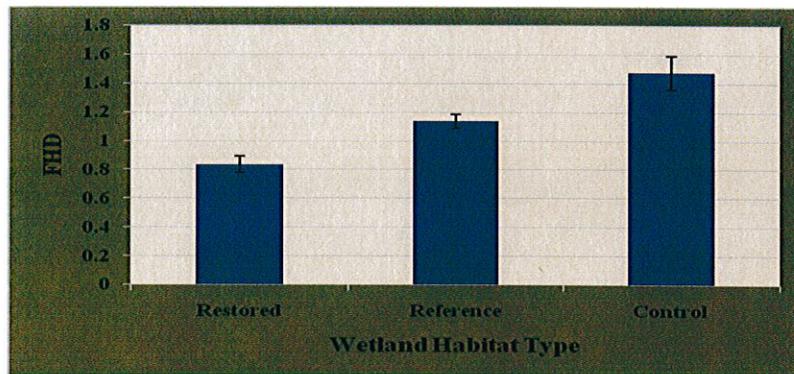


Figure 3-34. Average Foliar Height Diversity (FHD, H') for reference, restored and control wetland sites at the Yuma East Wetlands and Bill Williams National Wildlife Refuge. Error bars signify standard error.

The restored and control wetland sites had similar vegetation species diversity of the wetland sites (Figure 3-35). The restored wetland sites were planted with a variety of native wetland species, including California bulrush, threesquare bulrush and hardstem bulrush. Also, native weedy species such as Mexican sprangletop invaded the sites and

the adjacent native riparian habitat adds to the species diversity in the restored sites. Control wetland sites were a mix of native and non-native wetland and riparian species that contributed to the high species diversity. The high species diversity in the control wetland sites was contributed to the adjacent non-native riparian habitat, and invasive weedy species such as phragmites and tamarisk. The reference habitat was primarily comprised of a monoculture of cattail with a small density of marsh fleabane. The reference habitat had burned in 2007, and the existing tamarisk present in the wetland had not recolonized the site.

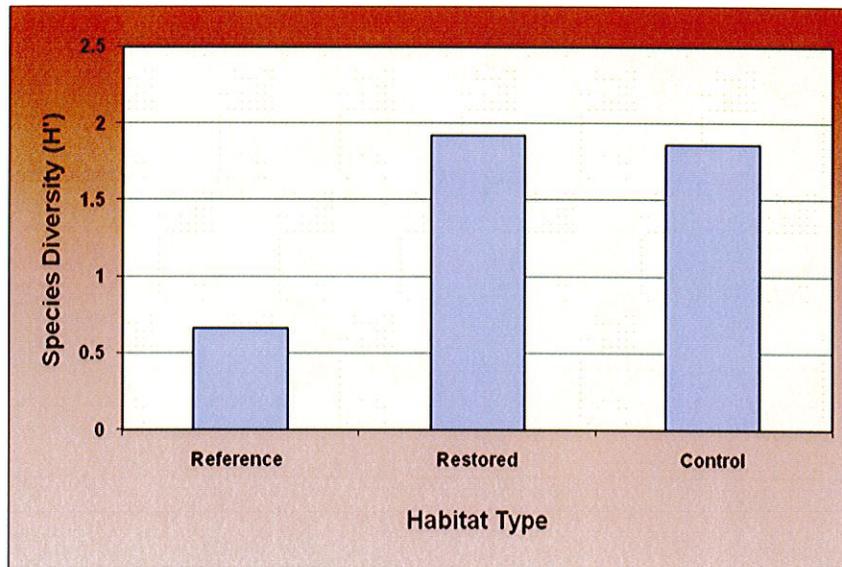


Figure 3-35. Vegetation Species Diversity (H') for reference, restored, and control wetland sites at the Yuma East Wetlands and Bill Williams National Wildlife Refuge.

The control wetland sites had the highest habitat diversity (Figure 3-36). Again this was contributed by the multiple herb, shrub and tree species present at the site. The reference and the restored sites were primarily comprised herbaceous and shrub species and water habitats. This is further illuminated by the percent vegetation cover in each habitat. Percent cover in the control sites was measured up to 2% in the 5-6 meter layer, where the reference and restored habitats did not have vegetation reach to this height. The highest percent cover for the reference and restored wetland sites was in the 0-1 meter layer, 42% and 58% respectively, and percent cover declined in the higher meter layers. For the control wetland sites, the 0-1 meter layer had only 29% cover.

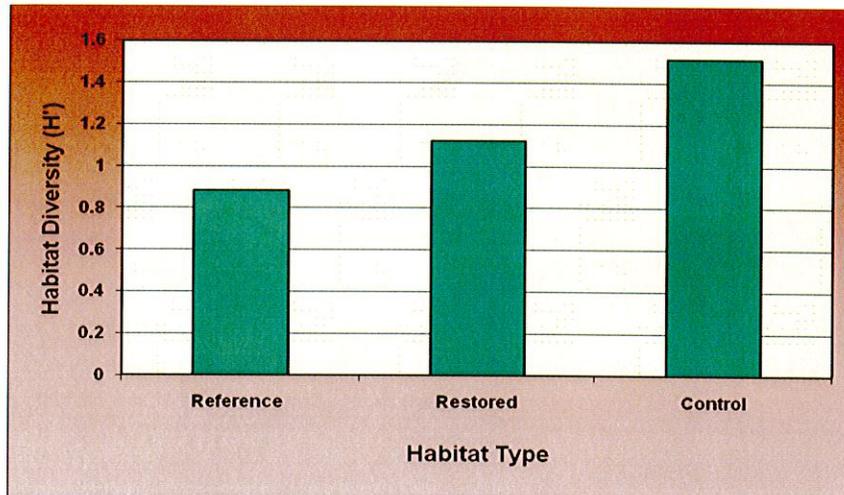


Figure 3-36. Habitat Diversity (H') for reference, restored and control wetland sites at the Yuma East Wetlands and Bill Williams National Wildlife Refuge.

4.0 Conclusions and Recommendations

4.1 Project Conclusions

Invertebrates

The MRPP analysis indicated that all riparian sites had similar species occurrence and abundance with the exception of reference and adjacent agricultural sites and control and agricultural sites. While this data suggests that mature and immature restored sites are similar to reference sites, it also suggests that control sites are similar to reference sites. Therefore, no conclusive evidence indicates that restored habitats are beginning to mimic the invertebrate species composition observed in the reference sites over the control sites. Despite the similarity of the invertebrate species composition within the riparian habitats, there were a few species that were only collected in the reference sites and mature restored riparian sites, including *Hetaerina Americana* (Odonata), *Dannus gilippus strigosus* and *Forbesia perlaeta* (Lepidoptera). While these species are not rare, *D. g. strigosus* and *F. perlaeta* have a limited range including the southwest and Arizona and California respectively. On the contrary to the riparian sites the MRPP analysis for the wetland sites indicated that all sites had significantly different species occurrence and abundance. Also, two species that were only collected in the reference and restored wetland sites were *Homorthodes perturba* and *Lygropia octonalis*. Again, these species are not rare, however their range is limited to the southwest and Mexico.

The results indicate that no difference occurred in invertebrate community richness and abundance for riparian or wetland sites during the 2007 and 2008 combined research seasons. The lack of significant difference in both invertebrate richness and abundance in the wetland and restoration sites may be due to sampling discrepancy. Since high abundances of invertebrates were collected at the sites, numbers were often estimated and put into the abundance categories described above in the methods. The mid-point of each

of these categories was used for the abundance calculations. Therefore, some individuals may have been over represented and other under representative.

While these initial results indicate that restored sites do not mimic the reference sites, further identification of invertebrates to the species taxonomic level may reveal the presence of sensitive or indicator species present in restored habitats. All invertebrates were identified to the Family level, and the lack of time and available funding prevented the further identification of many species. Also, many of the Diptera and Hymenoptera may have not been described. Other studies have shown that invertebrates quickly respond to habitat restoration treatments in other habitats, including ponderosa pine forests (Waltz and Covington 2004); an Australian forest (Moir et al. 2005), and a riparian woodland (Williams 1993). Many of these studies, however, focused on the recovery of one order of invertebrate in the restored habitat including butterflies (Lepidoptera) in ponderosa pine forests and true bugs (Hemipteran) in the Australian forest. The study conducted in the riparian woodland investigated the entire invertebrate community, however sampling was limited to collecting invertebrates using pan trapping and sweep sampling of dominant plants (Williams 1993).

Invertebrate richness and abundance was dominated by 30%-60% of flies (Diptera) in both riparian and wetland habitats. This order constitutes one of the largest orders of insects, and they are almost always found in high abundances (Borner et al. 1989). Also, flies run the gamut of functional groups, including scavengers, herbivores, predators, bloodsuckers, parasites, and pollinators. In riparian sites, bees, wasps, and ants (Hymenoptera) had a high species richness and abundance. Hymenoptera are beneficial to native vegetation and agricultural crops as pollinators. They help promote recruitment of native species and are elemental in the sustainability in many crops. Moths and butterflies (Lepidoptera) and beetles (Coleoptera) had also high species richness and abundance in all riparian sites. Lepidoptera are herbivores and are often agricultural pests, however many species of butterfly are sensitive to habitat change and are of concern. The high abundances detected in beetles were primarily due to high densities of the family Staphalinidae. This family is a tiny pest that occurs in high numbers near wet sites.

Avifauna

The combined avifaunal data from 2007- 2008 showed that avifaunal composition was significantly different among all sites in both the riparian habitats. This result was consistent with the findings from the 2007 and 2008 Annual Reports that looked at each year individually. Avifaunal species richness and abundance was also significantly different between riparian and wetland sites for the combined 2007-2008 season. Within the riparian habitats, the control and immature restored sites had similar species richness and relative abundance. Also, the immature and mature restored sites had similar avifaunal species richness. This result indicates that the restored sites are not yet providing preferred habitat to a high richness of species over the surrounding control areas. Also, that restored sites are not yet mimicking reference habitats in species richness and relative abundance. We suspect that as the restored sites continue to flourish,

a greater diversity of species will prefer its use for nesting and foraging over the surrounding control habitats.

Despite the similarities in avifaunal richness between restored and control sites, more sensitive species and species of concern are utilizing the restored habitats over the control habitats. Willow flycatcher use of mature restored sites for stop-over habitat during migration has increased. They were not observed breeding at the site. Yellow-billed cuckoos were detected using the immature restored sites in the Yuma East Wetlands during the breeding season, however no nests were detected. This may indicate that immature areas are becoming more established with diverse vegetation structure that is habitat for sensitive species. As this habitat matures it will be important to continue monitoring it to detect the recovery of these avifaunal species. Since the immature riparian sites are not adjacent to residential areas and are proposed for limited access, species sensitive to human contact may return to these areas.

The restored mature riparian sites still lack some of the riparian indicator species such as the brown crested flycatcher and Bewick's wren. However, other riparian indicator species such as the Gila woodpeckers, ladder-backed woodpeckers, yellow breasted chat, song sparrow also occurred in the restored mature riparian habitat in smaller numbers. All these species are commonly associated with the cottonwood-willow riparian habitat along the lower Colorado River (Rosenberg et al. 1991). Northern mockingbird and verdin were indicators of the restored mature riparian habitat. Northern mockingbirds are not specialist species and are common in developed and disturbed areas. The Yuma West Wetlands is located adjacent to a developed neighborhood and park area, where both Northern mockingbirds occur. Verdins occur only in the southwestern desert areas. These species were found nesting and foraging in the mesquites planted within the restored sites, which is typical nesting habitat for this species (Webster 1999). Although verdins were detected at the reference riparian habitats, they may not have been as abundant since the detection areas typically did not include the mesquite habitat.

Agricultural sites had lower average avifaunal abundance and richness than the other riparian habitats. The species most indicative of the agricultural sites was the red-winged blackbird. During the breeding season, red-winged blackbirds nest in large colonies and are strongly associated with emergent vegetation, riparian areas, and irrigated agricultural lands (Clark 2005). Due to the decimation of the majority of Arizona's natural riparian and wetland habitats due to water diversion, damming, ground water pumping and agricultural development, red-winged blackbirds have been able to adapt to the existing conditions of landscape and thereby utilizing irrigated agricultural lands for nesting, roosting, and foraging sites (Clark 2005). Price et al. (1995) revealed that the highest abundance of breeding blackbirds in Arizona was encountered in the heavily farmed lower Colorado and Gila River valleys. In the YEW, red winged blackbirds utilized the agricultural sites for foraging and not nesting. This was likely due to the rapid cultivation and harvesting of the alfalfa and wheat grown on the agricultural fields. As wetland and riparian restoration expands and creates healthy, native habitats, it is suspected that the red-winged blackbirds will return to utilize these habitats for breeding, roosting, and foraging.

Reference wetland sites had higher species richness than restored and control wetland sites, and restored and control wetlands had similar species richness. This indicates that restored wetland sites may not be providing preferred habitat to a high richness of species over the surrounding control areas. However, many of the species detected in the control wetland habitat were more affiliated with the surrounding riparian area and not in the wetland. These species include ash-throated flycatcher, brown-headed cowbird, mourning dove, verdin, and yellow rumped warblers. The restored wetland sites have immature restored riparian areas surrounding the habitat, which did not host a high richness of avifaunal species.

The indicator species analysis revealed that Clark's grebe, common yellowthroat, marsh wren, and Western grebe were the best indicators for reference wetlands. These are all species affiliated with open water and wetland habitats. Killdeer were the best indicator species for the restored wetlands. These birds are primarily affiliated with shoreline habitat, which is common of the area adjacent to the restored wetlands in the YEW. As habitats mature, the shoreline habitat is likely to adjust. Red winged blackbirds showed to be the best indicator species for the control wetland sites.

Control wetland sites had a significantly higher avifaunal abundance than the restored or reference sites. The high abundance detected in the control wetland sites was primarily due to the high numbers of red winged blackbirds and yellow headed blackbirds. These high numbers were observed in primarily two sites, wetland control 1 and 2. These two sites have large cattail islands located in a backwater site, which is protected from predators and other disturbances. During the breeding season, over 100 birds were detected at each of the sites. As discussed above red-winged blackbirds nest in large colonies, so it is not surprising to have higher abundances in the control wetlands.

Although avifaunal richness was similar to the control wetland sites, species of concern, including Yuma clapper rail, Virginia rail, least bittern and long-billed savannah sparrow were detected using the restored habitat over the control habitat. This indicates that there is a higher habitat quality in the restored wetland habitats. Yuma clapper rails are a federally listed endangered species, which occurs in salt and freshwater cattail and bulrush marshes with low stem densities and little residual vegetation (Conway et al. 1993). The marshes located along the lower Colorado River are the only freshwater marshes where Yuma clapper rail exists. Black rails are federally listed as endangered in Mexico and are of threatened status in Arizona and California. This species does not occur outside of emergent marshes, and prefers low-lying threesquare bulrush with shallow water (Eddleman et al. 1994). Both the Yuma clapper rail and black rail are both species of high conservation priority, and by recovering these species in the restored wetlands is a great accomplishment. As the wetlands mature and expand due to future restoration efforts, it is expected that these marsh bird populations will increase.

Invertebrate and Avifaunal Species Relationships

Hymenoptera were correlated with Bell's vireo, black phoebe, yellow-breasted chat and yellow warbler in the riparian wetland sites. Yellow-breasted chat, yellow warbler and

Bell's vireo primarily occurred in the reference habitats at BWRNWR, although few Bell's vireos occurred in the mature restored habitats. These species prefer habitats higher up in the canopy of cottonwood, willow and mesquite trees. Invertebrates were collected during the avifauna were breeding and the trees were flowering, which may have brought hymenoptera, primarily pollinators, into the canopy. Black phoebes often perch on low lying vegetation and catch flying invertebrates, so it is likely that the relationship between black phoebes and hymenoptera was by chance. Black phoebes may have been catching flying invertebrates near pollinating plants that were attracting hymenoptera. Diptera were negatively correlated with the brown-crested flycatcher. These flycatchers often glean for invertebrates on branches of trees, however they also catch flying invertebrates. The negative relationship of these species may be accounted by the difference in location of these species. Brown crested flycatchers remain high in the cottonwood and willow canopy and higher densities of diptera may be closer to the ground near water. Hemipterans and homopterans were negatively correlated with verdins. Verdins primarily eat spiders and fruit berries (Ehrlich et al. 1988), and may be negatively correlated with these invertebrate orders due to difference in habitat preference. Homopterans and hemipterans were primarily abundant in agricultural areas, where verdins occurred in restored and control habitats. Coleoptera were correlated with Lucy's warbler, which may be due to the high densities of the small staphylinidae beetle. Lucy's warbler is entirely insectivorous.

In the wetland areas, hymenoptera showed to be negatively correlated to black phoebe. This result is contrary to what was detected in the riparian habitats, where a positive correlation was detected. This indicates that black phoebes are feeding on different species in the different habitats. Homoptera were correlated with common yellowthroat. Common yellowthroat often gleans from the ground and may have been harvesting homoptera off the grass within the wetland sites. Hemiptera showed to be highly correlated to willow flycatcher and yellow rumped warbler. The high correlation of these species may be due to the low abundance of hemipterans detected, where the three hemipterans were detected high abundances of the two bird species were located.

Mammals

Mammal abundance in the control riparian sites was on average 14 times higher than mature restored sites and 1.3 times higher than reference sites. However, no significant difference in mammal abundance was detected between the reference and control sites. The significant relationship between small mammal abundance and total vegetation volume indicates that small mammals prefer more dense and productive habitats. Although no significant difference was detected between TVV and the riparian habitat types, with the exception of adjacent agriculture, the control sites had consistently dense under-story vegetation. Control riparian habitats were dominated by tamarisk and phragmites, which often promoted a dense leaf litter. In one of the control sites traps were placed along the edge of the tamarisk canopy and within thick phragmites litter, which often harbored a high density of small mammals. The phragmites under-story in the mature restored sites was periodically maintained, and therefore a dense litter layer did not exist. The immature restored sites also did not have the mature canopy to deposit a dense litter layer, and the sites were maintained to remove invasive phragmites and

arrowweed. The reference sites had a diverse under-story of litter and woody debris that may have provided sufficient habitat structure for small mammals.

Restored wetland sites had significantly lower average mammal abundance than the control and reference sites. This may have been due to the inundated conditions occurring at the site during the sampling periods. Both the control and reference sites were primarily dry when the traps were placed, however the restored wetlands, dominated by California bulrush, were continuously inundated during the surveys. Therefore, the traps were placed adjacent to the wetlands in inland saltgrass. While inland saltgrass is a dense growing grass, it does not grow very tall and does not provide over-story cover. Also, the restored habitats were recently created and disturbed through the restoration process, which may have caused many small mammals to leave the site and seek more suitable habitat. Re-immigration of small mammal species into the restored habitats may take time, which warrants future study to detect these species.

Cactus mice were the most abundant species captured in all the riparian sites, with the exception of agricultural sites, and in the reference wetland site. This species is usually affiliated with cactus, creosote, wood piles, rocks and rocky slopes, chaparral and sandy flats (Hoffmeister 1986). However, cactus mice often replace American deer mice in habitats that they do not occur, including riparian woodlands. The ranges of these two species overlap in Yuma and at Bill Williams NWR, and both species were captured in all the riparian and wetland habitats. Desert pocket mice were also captured at all the riparian sites and all wetland sites with the exception of the restored wetland sites. This species has been found in high densities in riparian woodlands and tamarisk along the Colorado River (Stamp and Ohmart 1979). White-throated woodrats and Western harvest mice thrive in a variety of habitats. Western harvest mice prefer habitats with adequate cover, preferably grasses, and usually occur along streams and rivers where soil is moist (Hoffmeister 1986). Ohmart et al. 1988 found that white-throated woodrats occurred along the Colorado River in riparian habitats closer to the river with greater foliage density and diversity. This may be the reason why white-throated woodrats were detected in all wetland habitats and reference and control riparian habitats. The immature and mature riparian habitats had lower foliage density, which may be why this species was not detected in these habitats. Desert woodrats occur in the same habitats as the white-throated woodrats, often occurring at the base of a rocky slope (Hoffmeister 1986). The single individual of this species was captured in the reference wetland habitat that is close to the base of a rocky slope.

House mice were captured in the reference, immature and agricultural riparian sites and reference and restored wetland sites. The Yuma East Wetlands are on the edge of the city of Yuma, which is typically where this species occurs. This species often occurs adjacent to agricultural fields, man-made dumps or edge of towns (Hoffmeister 1986). However, the detection of this species in the reference riparian and wetland sites indicates how well it is capable of dispersing to new habitats. Ohmart et al. (1988) detected house mice in riparian habitats along the Colorado River. Spotted skunks are also abundant in a variety of riparian habitats. This species likely occurs in more habitats than the reference wetland

habitat at the Bill Williams NWR, since they are typically not caught in small mammal traps.

Two hispid cotton rats were captured in the control wetland habitat. These individuals were most likely the Yuma subspecies (*eremicus*) because of their location along the Colorado River. This species is of concern due to the manipulation of its habitat and their current distribution is unknown. Historically, this species occurred in wetlands around the Colorado River, however currently it occurs in brushy weedy areas around the Colorado River dominated by Bermuda grass, marsh fleabane, cattail and phragmites. This species has also been captured on the edges of irrigated agricultural fields (Hoffmeister 1986). A male and female were caught in the same habitat, which may indicate that they are reproducing, however the female was captured during November and did not exhibit any indication of being in reproductive condition.

The current research indicates that restored habitats did not harbor the highest abundance or diversity of small mammals of all the habitat types sampled. However, the results from the mammal sampling did indicate that species richness and abundance in restored wetland and riparian sites were similar to the reference sites. Control riparian sites had the highest richness and abundance of the riparian sites, and the reference habitats had the highest richness and abundance of the wetland sites. In order to tease this relationship out further it would be recommended to add more replicates to each habitat type.

Herpetofauna

Herpetofaunal abundance and richness at control and mature restored riparian sites was substantially greater than at immature restored or reference sites. There were no captures of herpetofauna in Adjacent Agricultural arrays. Continuous and severe disturbance associated with agricultural activity likely keeps them from foraging into, occupying, and certainly establishing residence in these areas. Greater abundance and richness at control and mature restored areas, versus immature restored areas, is likely due to proximity to undisturbed (unrestored) habitat and lack of recent disturbance at these sites. Lower overall abundance and diversity at reference riparian areas is associated with the distance between Yuma and Bill Williams River National Wildlife Refuge and associated differences in species composition.

While herp numbers were generally low in wetland versus riparian areas, herp abundance and richness at control wetland sites was slightly higher than at restored or reference sites. This relationship was not statistically significant. Wetland areas were periodically inundated by activities associated with providing irrigation to restored areas (Yuma East Wetlands) or natural fluctuations in river level (Yuma East Wetland and Bill Williams River National Wildlife Refuge). Reference wetland arrays were severely inundated at Bill Williams River, and were overgrown by cattails late in the season, likely accounting for low herp numbers captured. Restored wetlands at YEW were also inundated during and prior to sampling periods. Two of the three control wetland arrays at YEW were a bit more elevated, did not become inundated, and yielded more herp captures than other wetland arrays. It is important to note that inundations in riparian and wetland areas are natural disturbance events, and they displace, rather than eliminate herpetofauna. This

displacement results in low capture rates that might not reflect overall abundance and richness in a particular area.

Statistical analyses indicated that species composition was different among sites. Side-blotched lizards were the most common herp overall and were the most common lizard in riparian areas. Side-blotched lizard are widely distributed (Stebbins 2003) and are common in all seasons (Brennan and Holycross 2006, Stebbins 2003), which is reflected in their ubiquity among seasons and sampling sites. Western Whiptails were the most common lizard species in wetland sites. Whiptails are disturbance tolerant species (Walker et al. 1986), and they move in quickly post disturbance. Additionally, whiptails are nomadic foragers (versus the other, territorial lizard species captured in this study), hence they are the most likely species to utilize areas following inundation. Adult whiptails are known to cease activity fairly early in the season (Vitt and Ohmart 1977), and indeed Western Whiptails were most common in the spring sampling periods, especially May and their activity tailed off during the fall sampling periods. Hatchlings of several species (Sided-blotched Lizard, Long-tailed Brush Lizard and Spiny Lizard) were present during fall sampling periods indicating that there is good recruitment (reproduction) among these species in the habitats in which they are present. Predominance of juvenile age class among Spiny Lizards suggest that the younger lizards are dispersing into areas where arrays have been constructed and the highly territorial adults are not dispersing widely.

More species of herps in greater numbers were observed in riparian versus wetland sites. Riparian sites contain more suitable habitat structure for most of the species observed, are less likely to be inundated, and are home to a greater abundance and diversity among the terrestrial arthropod food base. Mature, control and reference sites have greatest diversity, likely due to greater (and more natural) habitat complexity coupled with lack of recent disturbance. For example, no snakes were captured other than in mature rip area, and those encountered by workers during the course of restoration (disturbance) of previously undisturbed areas. Three toad species were found at the reference sites while a single toad species was recorded at a restored riparian area. Low numbers of herpetofauna in wetland sites are in part attributable to a lack of amphibians. This is notable and likely due to recent and severe disturbance of soils and established vegetation. The methods and intensity of disturbance during restoration, using techniques such as raking and burning, and the associated altering of the soils, vegetation and arthropod food base, likely decimate herp populations for some time, and different species re-establish at different rates. While more expensive and logistically more difficult, less intrusive methods, like chainsaw removal of exotic trees followed by application of Garlon (triclopyr) herbicide to stumps, has been demonstrated to have positive neutral effects on the lizard community along the Middle Rio Grande Bosque (Bateman et al. 2008, Bateman, Chung MacCoubrey and Snell 2008).

Preliminary results allow for limited inference regarding factors affecting the distribution, abundance and diversity of herpetofauna in the riparian, wetland, and agricultural communities sampled. Only fourteen species of reptiles and amphibians were observed at the Bill Williams and Yuma sites during 2008 sampling. These numbers are relatively

low likely due to the great disturbance of habitat within these sites (a case in point; in a similar study of a less disturbed riparian corridor along the Gila River in Arizona, Jakle and Gatz observed 21 species of herps during 1985 sampling). The fact that herpetofaunal diversity is generally low in disturbed systems is also illustrated by another regionally proximate study in which Jones (1988) demonstrated greater herp diversity in the less altered Hassayampa River versus more altered Salt River riparian system.

Further and intensified sampling of herpetofauna will provide greater resolution regarding community structure of reference and control areas and recovery among restored sites. In general herp diversity was fairly low across all sites during 2008 sampling. Likely reasons for this are (1) overall disturbed nature of lower Colorado River riparian habitats in this region (2) recent and severe disturbance to soils and established vegetation in “restored” areas and ongoing disturbance (inundation) (3) limited sampling across seasons (i.e. other herps may be active during periods in which sampling was not conducted during 2008) and (4) local/regional/global decline in amphibian species/populations.

Vegetation

The tall canopy layer was misrepresented in the total vegetation volume calculations for both the reference and mature restored riparian sites, because the measurements were only taken up to 6 m in height. Many of the tall canopy trees such as cottonwood and Goodding willow reached up to over 18 m in height, which is almost 60 ft. Both cottonwood and Goodding willow often do not express leaves in the lower canopy due to insufficient solar radiation that reaches this layer, and therefore the amount of hits from these species is lower in the lower canopy. Tamarisk has a dense thicket of branches dominating the shrub to mid-canopy tree layer. Therefore, tamarisk appears to dominate the total vegetation volume in the reference riparian sites. Other studies have recorded total vegetation volume up to 8 m (Mills et al. 1991), but after that height it is hard to stabilize a pole and read measurements. Tall canopy measurements (>6 m) would be an important measurement to record in future studies, since many wildlife species including many riparian bird species utilize the canopy habitat.

Vegetation species diversity was highest in restored mature and immature riparian sites. This is primarily due to the diversity of native vegetation species planted at these sites. The restored mature sites were planted with Fremont cottonwood, Goodding willow, sandbar willow, honey mesquite, screwbean mesquite and quailbush, while the immature restored sites were planted with the same variety of species as the mature sites, but also included blue palo verde, ironwood, four-wing saltbush, seep willow, and various understory herbaceous plants. The site conditions, including depth to water and salinity, were also more variable at the restored sites than the reference riparian sites. The reference riparian sites are within the riparian corridor and have a shallow depth to water, which is beneficial for cottonwood, willow and tamarisk. Some of the more drought tolerant species, such as palo verde, ironwood, four-wing saltbush, and screwbean and honey mesquites were found on the upper terrace outside of the riparian zone and therefore were not detected in the total vegetation volume surveys. The control and agricultural sites

were similar in species diversity. Invading species, such as Bermuda grass and sprangletop, were responsible for the higher species diversity in the agricultural sites.

Much of the control wetland sites were dry for periods of a time within the wetland, which allowed for the colonization of non-wetland species such as tamarisk and arrowweed. Because of this control wetland sites had the highest total vegetation volume, foliar height diversity, habitat diversity and high species diversity. The reference and restored wetland sites were more typical southwestern wetlands, in that they had more herbaceous species.

4.2 Recommendations for Future Projects

This study provided a good preliminary baseline of the distribution of all wildlife species and richness and abundance of wildlife communities, including invertebrates, avifauna, mammalian and herpetofaunal species in the Yuma East and West Wetlands. While restored sites did not significantly differ from control sites and were not significantly similar to reference sites for species richness and relative abundance, the presence and use of the restored habitat by species of concern indicates that restored habitats are beginning to recover the wildlife communities. Many studies have indicated that in order to observe bird community recovery at restored sites required more than two years of growth (Kus 1998, Passell 2000, Jansen 2005). Restored marsh habitat has recovered some of the avifaunal species of concern in just 2.5 years of growth, however marsh vegetation species tend to grow at a fast rate and the habitat quality recovers quickly. As riparian habitats mature and form multiple stand structure, it is expected that the wildlife communities will recover and will begin to mimic that found in reference habitat types.

This research should be conducted in the future, within 5 years, as habitats mature in order to detect the changes in the wildlife communities. Also, more sampling replicates for invertebrates, herpetofauna and mammals in each habitat type would provide greater power to detect significant differences in order to elucidate further the affect of restoration on wildlife communities, and provide insight into rates of recovery. In order to increase replicates, more labor and equipment will be required, especially for the invertebrate collections which is very labor intensive. As the immature restored riparian sites mature these sites could be combined with the mature sites as combined restored riparian sites.

Vegetation measurements should be conducted during each sampling session in order to detect the changes in vegetation structure over time. This would provide better correlation between wildlife populations and the vegetation structure at the time of sampling. Also, TVV should be measured up to 8m in height in order to better represent the tall canopy tree layer. Collecting micro-habitat conditions, such as humidity and soil moisture may increase the understanding of species habitat preference.

Despite sampling the habitats four times during one year for herpetofauna and mammals, it is likely that species belonging to the small mammal and herpetofaunal communities were missed. It would have been beneficial to continue the sampling over two or more

years to detect population trends and to potentially capture a greater number and diversity of species.

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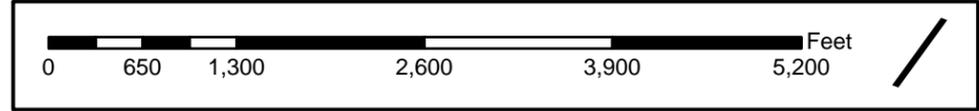
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Appendix A. Yuma East Wetlands Site Map



Map Information:
NAD 83, State Plane AZ West- USFeet

Legend

- (Avifaunal Research Points
- ▭ Yuma East Wetlands Boundary

* indicates invertebrate, mammal and herpetofaunal points



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ARIZONA WATER PROTECTION FUND
RESEARCH AWP
GRANT NO. 07-147WPF and 08-153WPF

**YEW Restored and Control Wetland;
Control and Recently Restored Riparian;
and Agricultural Research Points**

October 2009

Appendix B. Yuma West Wetlands Site Map



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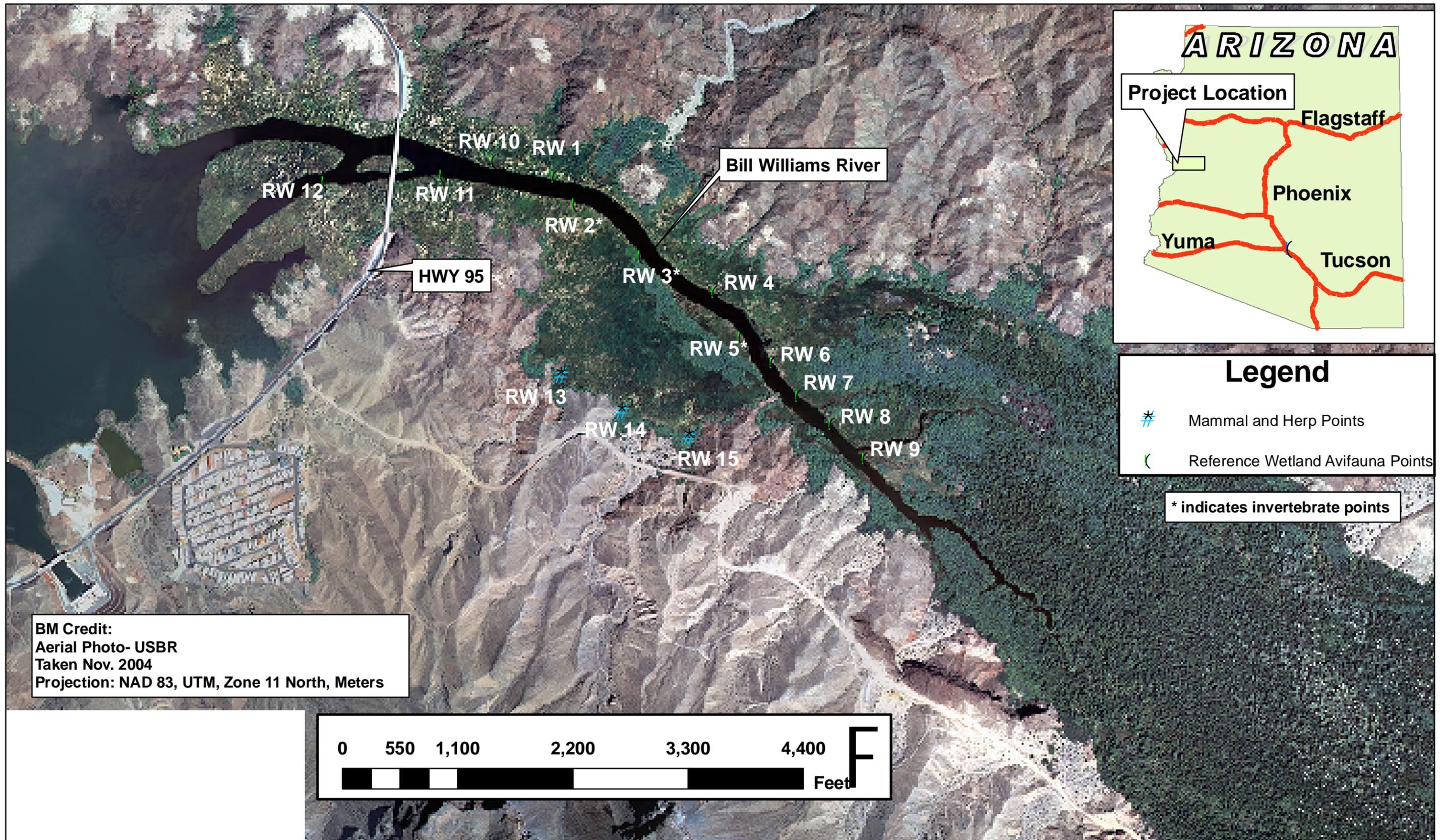
ARIZONA WATER PROTECTION FUND

RESEARCH AWP
GRANT NO. 07-147WPF and 08-153WPF

**YWW Mature Restored Riparian
 Research Survey Points**

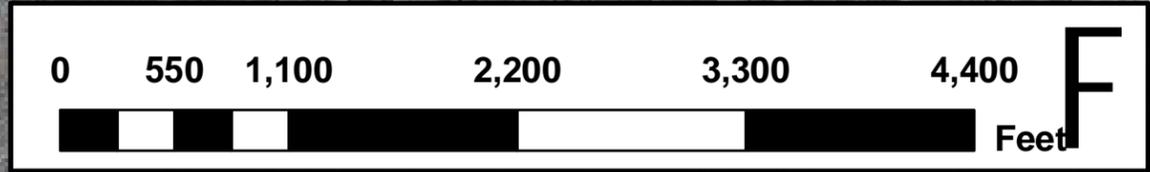
October 2009

Appendix C. Bill Williams Wetland Site Map

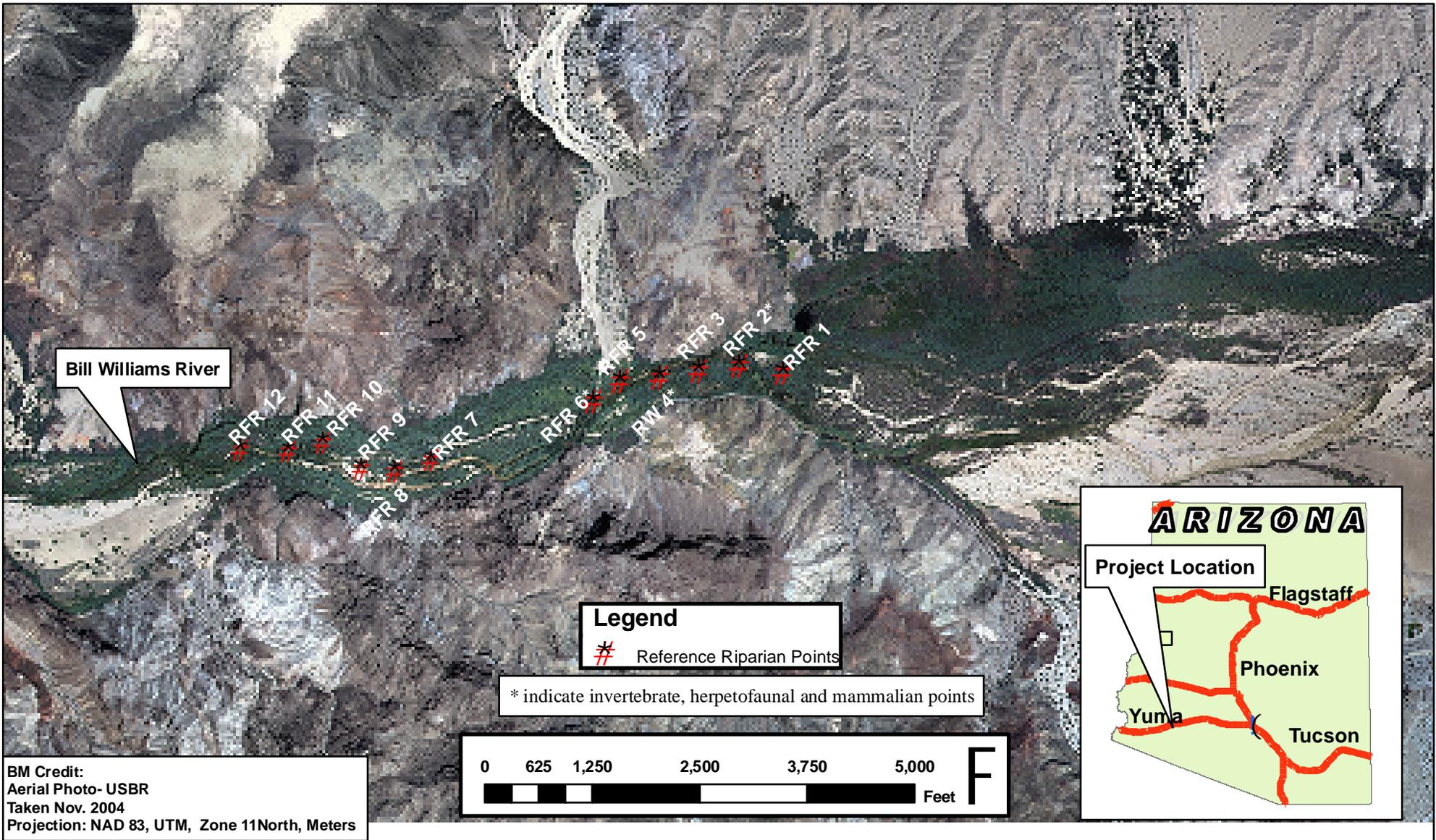


* indicates invertebrate points

BM Credit:
 Aerial Photo- USBR
 Taken Nov. 2004
 Projection: NAD 83, UTM, Zone 11 North, Meters



Appendix D. Bill Williams Riparian Site Map



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Arizona Water Protection Fund
 Research AWP
 Grant NO. 07-147WPF and 08-153WPF

Reference Native Riparian Research
 Points at Bill Williams National Wildlife Refuge

October 2009

Appendix E. 2008 Invertebrate Datasheets

Research AWPf Invertebrate Database May 2007

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Invert ID Number	Number	Date Collected	Method of Collection
YEW	Restored Wetland 1	Arthropoda	Insecta	Odonata	Libellulidae	Tramea			Envelope		1	5/14/2007	Spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera	Sphingidae				pinned	1434	1	5/12/2007	UV light
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera	Scarabaeidae				Pinned	1940	1	5/12/2007	UV light
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera	Cicindelidae				Pinned	1618, 392	2	5/12/2007	UV light
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 1	Scarabaeidae				pinned	1941	1	5/12/2007	UV light
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 2	Carabidae				2 pinned	1900, 1901	3	5/12/2007	UV light
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 3					3 Pinned	1640-1642	7	5/12/2007	UV light
YEW	Restored Wetland 1	Arthropoda	Insecta	Homoptera 1					pinned		2	5/12/2007	UV light
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 4					pinned	1585, 1586	2	5/12/2007	UV light
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 8					Pinned	1587	1	5/12/2007	UV light
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 5					pinned	1619, 1620	2	5/12/2007	UV light
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 1					pinned		1	5/12/2007	UV light
YEW	Restored Wetland 1	Arthropoda	Insecta	Hemiptera 1					pinned		1	5/12/2007	UV light
YEW	Restored Wetland 1	Arthropoda	Insecta	Trichoptera 1					Pinned on point	1729	2	5/12/2007	UV light
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 2					Pinned	1778, 1791	2	5/12/2007	UV light
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera 1	Culicidae				ETOH		1	5/12/2007	UV light
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera 2					ETOH		10	5/12/2007	UV light
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 6					ETOH		7	5/12/2007	UV light
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 7	Staphylinidae				ETOH		2	5/12/2007	UV light
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera 1					Pinned	1436	1	5/12/2007	UV light
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera 2					Pinned	1435	1	5/12/2007	UV light
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera 3	Noctuidae	Spodoptera	exigua				2	5/12/2007	UV light
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera 4							8	5/12/2007	UV light
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera 5							1	5/12/2007	UV light
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 3					Pinned	1692	1	5/14/2007	Malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 4					Pinned	1811	1	5/14/2007	Malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera 3	Serfidae				None		8	5/14/2007	Malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera 4							22	5/14/2007	Malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 5					Pinned	1483	2	5/14/2007	Malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 6					Pinned	1527	1	5/14/2007	Malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera 5					ETOH		51	5/14/2007	Malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera 6					ETOH		26	5/14/2007	Malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera 7					ETOH		1	5/14/2007	Malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 7					ETOH		Medium	5/14/2007	Malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 8					Pinned	1486, 1548	2	5/14/2007	Malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 9					ETOH		few	5/14/2007	Malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera	Chironomidae				ETOH		few	5/14/2007	Malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera 8					ETOH		few	5/14/2007	Malaise

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Invert ID Number	Number	Date Collected	Method of Collection
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera 9					ETOH		Medium	5/14/2007	Malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera 10					ETOH		Few	5/14/2007	Malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Homoptera 2					ETOH		Few	5/14/2007	Malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 8					Pinned	1621	1	5/12/2007	UV light
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 9					Pinned	1588	1	5/12/2007	UV light
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera	Syrphidae				Pinned	1532	1	5/14/2007	Spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 10					Pinned	1804	1	5/14/2007	Spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 11					Pinned	1775	1	5/12/2007	UV light
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 12					Pinned	1546, 1569	2	5/14/2007	Malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Homoptera 3					Pinned	1723	1	5/12/2007	UV light
YEW	Restored Wetland 2	Arthropoda	Insecta	Odonata 1					Envelope		1	5/14/2007	Spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Coleoptera 1							1	5/14/2007	Spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Odonata 2					ETOH		1	5/14/2007	Spot
YEW	Restored Wetland 2	Arthropoda	Arachnida 1						ETOH		1	5/14/2007	Spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 1					ETOH		1	5/14/2007	Spot
YEW	Restored Wetland 2	Arthropoda	Arachnida 2						ETOH		1	5/14/2007	Spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Ephemeroptera					ETOH		1	5/14/2007	Spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Coleoptera	Staphylinidae 1				ETOH		2	5/14/2007	Spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 2					ETOH		1	5/14/2007	Spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Coleoptera 2					ETOH		4	5/14/2007	Spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Lepidoptera 1					ETOH		1	5/14/2007	Spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Coleoptera	Staphylinidae 2				ETOH		1	5/14/2007	Spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 3					ETOH		2	5/14/2007	Spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Hemiptera	Notonectidae				ETOH		5	5/14/2007	Spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 4					Pinned		1	5/14/2007	Malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 5					Pinned		2	5/14/2007	Malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera	Serfidae				Pinned		2	5/14/2007	Malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Hymenoptera 1					Pinned on point		1	5/14/2007	Malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 6					2 pinned		3	5/14/2007	Malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Homoptera 1					3 pinned		3	5/14/2007	Malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Hymenoptera 2					Pinned on point		1	5/14/2007	Malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 7					2 pinned		8	5/14/2007	Malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 8					2 pinned		2	5/14/2007	Malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 9					ETOH		12	5/14/2007	Malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 10					ETOH		37	5/14/2007	Malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 11					ETOH		10	5/14/2007	Malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera	Chironomidae				ETOH		6	5/14/2007	Malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Hymenoptera 3					ETOH		3	5/14/2007	Malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 12					ETOH		1	5/14/2007	Malaise

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Invert ID Number	Number	Date Collected	Method of Collection
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 13					ETOH		6	5/14/2007	Malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Hemiptera					Pinned	1617	1	5/14/2007	Spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Hymenoptera	Apidae				Pinned	1555	1	5/14/2007	Spot
YEW	Restored Wetland 4	Arthropoda	Insecta	Hymenoptera 1					3 pinned	1812, 1813,	8	5/14/2007	Spot
YEW	Restored Wetland 4	Arthropoda	Insecta	Homoptera					Pinned	1733	2	5/14/2007	Spot
YEW	Restored Wetland 4	Arthropoda	Arachnida								2	5/14/2007	Spot
YEW	Restored Wetland 4	Arthropoda	Insecta	Lepidoptera							1	5/14/2007	Spot
YEW	Restored Wetland 4	Mollusca	Gastropoda	Basommatophora	Physidae						1	5/14/2007	Spot
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera	Chironomidae 1						1	5/14/2007	Spot
YEW	Restored Wetland 4	Arthropoda	Insecta	Coleoptera							1	5/14/2007	Spot
YEW	Restored Wetland 4	Arthropoda	Insecta	Hymenoptera 2					Pinned	1474	1	5/14/2007	Malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera 1					Pinned	1478	1	5/14/2007	Malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera 2					1 Pinned	1517	6	5/14/2007	Malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera 3							1	5/14/2007	Malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera 4					Pinned		1	5/14/2007	Malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera	Serfidae				Pinned		1	5/14/2007	Malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera 5					Pinned	1552	1	5/14/2007	Malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera 6							1	5/14/2007	Malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera 7					ETOH		46	5/14/2007	Malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera 8							1	5/14/2007	Malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera 9					2 pinned	1653, 1522	3	5/14/2007	Malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera	Chironomidae 2						1	5/14/2007	Malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera 10					none		1	5/14/2007	Malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Odonata					Envelope		1	5/14/2007	Malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Hymenoptera					2 Pinned	1789, 1777	2	5/14/2007	Spot
YEW	Control Wetland 2	Arthropoda	Malacostraca	Isopoda					ETOH		2	5/21/2007	Spot
YEW	Control Wetland 2	Arthropoda	Arachnida 1						ETOH		1	5/21/2007	Spot
YEW	Control Wetland 2	Arthropoda	Malacostraca	Decapoda					ETOH		1	5/21/2007	Spot
YEW	Control Wetland 2	Arthropoda	Insecta	Hemiptera	Gerridae				ETOH		1	5/21/2007	Spot
YEW	Control Wetland 2	Arthropoda	Arachnida 2						ETOH		1	5/21/2007	Spot
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 1					Pinned		1	5/21/2007	Spot
YEW	Control Wetland 2	Arthropoda	Insecta	Leipdoptera					Pinned	1744	1	5/21/2007	Spot
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 2					1 Pinned	1468	14	5/22/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera	Serfidae 1				3 Pinned	1560, 1562,	3	5/22/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera	Serfidae 2				Pinned	1519	1	5/22/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera	Serfidae 3				Pinned	1529	1	5/22/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Hymenoptera 1					Pinned	1501	1	5/22/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Hymenoptera 2					Pinned	1490	1	5/22/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Hymenoptera 3					1 Pinned	1550	2	5/22/2007	Malaise

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Invert ID Number	Number	Date Collected	Method of Collection
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 3					Pinned	1643	2	5/22/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Hymenoptera 4					Pinned	1776	1	5/22/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 4					6 Pinned	1533	18	5/22/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 5					1 Pinned	1654	3	5/22/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 6					1 Pinned	1657	2	5/22/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 7					Pinned		1	5/22/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 8					1 Pinned	1652	3	5/22/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 9					1 Pinned	1482	3	5/22/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Hymenoptera 5					1 Pinned		2	5/22/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 10					Pinned	1571	1	5/22/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Hymenoptera 6					Pinned	1800	1	5/22/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera	Chironomidae				ETOH		Abundant	5/22/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 11					ETOH		Abundant	5/22/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Hymenoptera 7					ETOH		Abundant	5/22/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 12					ETOH		2	5/22/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 13					ETOH		Medium	5/22/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 14					ETOH		Medium	5/22/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 15					ETOH		Medium	5/22/2007	Malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera	Scarabidae 1				Pinned	1909	1	5/14/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 1	Scarabidae 2				2 Pinned	1910 and 19	5	5/14/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 2					3 Pinned	1895, 1949,	6	5/14/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 3					Pinned	1622	1	5/14/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 4					Pinned	1948	1	5/14/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Hymenoptera 1					Pinned	1709, 1779	2	5/14/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 5					Pinned	1626-1628	3	5/14/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Trichoptera					ETOH		medium	5/14/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera	Staphylinidae				ETOH		3	5/14/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera	Chironomidae 1				ETOH		super abund	5/14/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 1					ETOH		abundant	5/14/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 2					ETOH		abundant	5/14/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 3					ETOH		abundant	5/14/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 6					ETOH		few	5/14/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Hemiptera	Cicadellidae				ETOH		medium	5/14/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 7					ETOH		few	5/14/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 1					ETOH		medium	5/14/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera	Mosca 1				3 pinned	1512, 1656,	few	5/14/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera	Mosca 2				Pinned	1469	1	5/21/2007	Malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 2					Pinned	1537	3	5/21/2007	Malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 3					Pinned	1509	1	5/21/2007	Malaise

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Invert ID Number	Number	Date Collected	Method of Collection
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 4					Pinned		1	5/21/2007	Malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Homoptera					ETOH		1	5/21/2007	Malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 5					Pinned	1510	1	5/21/2007	Malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 6					ETOH		abundant	5/21/2007	Malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 7					ETOH		abundant	5/21/2007	Malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera	Chironomidae 2						1	5/21/2007	Malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Hymenoptera	Apidae						3	5/21/2007	Malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera	Serfidae				Pinned		3	5/21/2007	Spot
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 8	Syrphidae				Pinned	1518, 1520,	1	5/21/2007	Spot
YEW	Control Wetland 3	Arthropoda	Insecta	Odonata 1					Pinned	1581	1	5/21/2007	Spot
YEW	Control Wetland 3	Arthropoda	Insecta	Odonata 2					Envelope		1	5/21/2007	Spot
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera					Pinned	1447	1	5/14/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Hymenoptera	Apidae				Pinned	1494	1	5/21/2007	Spot
YEW	Control Wetland 4	Arthropoda	Insecta	Hymenoptera	Formicidae 1				ETOH		9	5/21/2007	Spot
YEW	Control Wetland 4	Arthropoda	Insecta	Hymenoptera	Formicidae 2				ETOH		4	5/21/2007	Spot
YEW	Control Wetland 4	Arthropoda	Arachnida 1						ETOH		1	5/21/2007	Spot
YEW	Control Wetland 4	Arthropoda	Arachnida 2						ETOH		1	5/21/2007	Spot
YEW	Control Wetland 4	Arthropoda	Arachnida 3						ETOH		1	5/21/2007	Spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 1	Tephritidae				Pinned	1484, 1481	11	5/10/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 2					12 ETOH; 14 pinned	1646, 1578	27	5/10/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 3					Pinned	1567, 1489	2	5/10/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Coleoptera 1					ETOH		2	5/10/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 4					ETOH		1	5/10/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Coleoptera	Staphylinidae				ETOH		1	5/10/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Hymenoptera					ETOH		2	5/10/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Odonata 1					ETOH		1	5/10/2007	Spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Coleoptera 2					ETOH		1	5/10/2007	Spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 5					ETOH		1	5/10/2007	Spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Odonata 2					ETOH		3	5/10/2007	Spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Odonata 3					ETOH		1	5/10/2007	Spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Coleoptera 3					ETOH		1	5/10/2007	Spot
BWNWR	Reference Wetland 2	Arthropoda	Malacostraca	Decapoda	Hyallela				ETOH		4	5/10/2007	Spot
BWNWR	Reference Wetland 2	Arthropoda	Arachnida 1						ETOH		2	5/10/2007	Spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 6					ETOH		2	5/10/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 7					ETOH		2	5/10/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 8					ETOH		1	5/10/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Odonata 4					Envelope		1	5/10/2007	Spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Odonata 5					Envelope		1	5/10/2007	Spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera	Syrphidae				Pinned	1582	1	5/10/2007	Malaise

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Invert ID Number	Number	Date Collected	Method of Collection
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Hymenoptera	Apidae				none		2	5/10/2007	Spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 9					Pinned	1547	2	5/10/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 10					Pinned	1583	2	5/10/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 11					Pinned	1649	1	5/10/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 12					Pinned	1564	1	5/10/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 13					Pinned	1556	1	5/10/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Coleoptera 1					ETOH		abundant	5/9/2007	UV Light
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera	Chironomidae				ETOH		super abund	5/9/2007	UV Light
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 1					ETOH		3	5/9/2007	UV Light
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Ephemeroptera 1							4	5/9/2007	UV Light
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Coleoptera 2	Carabidae				pinned	1896, 1898	2	5/9/2007	UV Light
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 2								5/9/2007	UV Light
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Coleoptera	Staphylinidae						2	5/10/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 3	Typhritidae				1 pinned	1491	3	5/10/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 4							3	5/10/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 5					bag		58	5/10/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 6					bag	1544	1	5/10/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 7						1574	7	5/10/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 8					Pinned	1543	1	5/10/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera	Serfidae				bag		5	5/10/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 9					Pinned		1	5/10/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 10					1 pinned	1568	3	5/10/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Hymenoptera 1					Pinned	1814	1	5/10/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Hymenoptera 2					Pinned		1	5/10/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 11					Bag		5	5/10/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata 1					ETOH		1	5/10/2007	Spot
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Hemiptera	Gerridae				ETOH		1	5/10/2007	Spot
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Ephemeroptera 2					ETOH		2	5/10/2007	Spot
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Hemiptera	Notonectidae				ETOH		1	5/10/2007	Spot
BWNWR	Reference Wetland 3	Arthropoda	Malacostraca	Decapoda					ETOH		2	5/10/2007	Spot
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 12					ETOH		7	5/10/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 13					ETOH		12	5/10/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 14					ETOH		3	5/10/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 15					ETOH		1	5/10/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 16					ETOH		2	5/10/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata 2					Envelope		2	5/10/2007	Spot
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata 3					Envelope		1	5/10/2007	Spot
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Lepidoptera 1					pinned	1445	1	5/9/2007	UV Light
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Odonata 1					Envelope		1	5/10/2007	Spot

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BWNWR	Reference Wetland 5	Arthropoda	Insecta	Odonata 2					Envelope		1	5/10/2007	Spot
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Odonata 3					Envelope		1	5/10/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Hymenoptera 1					Pinned	1664	1	5/10/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Hymenoptera 2					Pinned	1696	1	5/10/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Hymenoptera 3					Pinned	1819, 1818	2	5/10/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 1	Tephritidae				4 Pinned; 3 ETOH	1479, 1563,	7	5/10/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 2					32 in ETOH		35	5/10/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Coleoptera 1					ETOH		3	5/10/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 3					ETOH		6	5/10/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 4					Pinned	1553	1	5/10/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 5					ETOH		3	5/10/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Hymenoptera 4					ETOH		1	5/10/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Hymenoptera 5					ETOH		1	5/10/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 6					ETOH		4	5/10/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 7					ETOH		1	5/10/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Coleoptera 2					ETOH		3	5/10/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Arachnida 1						ETOH		1	5/10/2007	Spot
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Coleoptera 3					ETOH		6	5/10/2007	Spot
BWNWR	Reference Wetland 5	Mollusca	Gastropoda						ETOH		2	5/10/2007	Spot
BWNWR	Reference Wetland 5	Annelida	Oligochaetae 1						ETOH		1	5/10/2007	Spot
BWNWR	Reference Wetland 5	Annelida	Oligochaetae 2						ETOH		1	5/10/2007	Spot
BWNWR	Reference Wetland 5	Arthropoda	Malacostraca	Isopoda					ETOH		1	5/10/2007	Spot
BWNWR	Reference Wetland 5	Arthropoda	Malacostraca	Decapoda					ETOH		1	5/10/2007	Spot
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Odonata 4					ETOH		1	5/10/2007	Spot
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Hymenoptera 6					Pinned	1813	1	5/10/2007	Spot
YEW	Riparian Imm 1	Arthropoda	Insecta	Hymenoptera					Pinned	1815	1	5/15/2007	Spot
YEW	Riparian Imm 1	Arthropoda	Insecta	Diptera 1					Pinned	1500	1	5/15/2007	Spot
YEW	Riparian Imm 1	Arthropoda	Arachnida 1						Pinned	1683	2	5/15/2007	Spot
YEW	Riparian Imm 1	Arthropoda	Insecta	Hymenoptera	Formicidae 1				Pinned	1682, 1829	6	5/15/2007	Spot
YEW	Riparian Imm 1	Arthropoda	Insecta	Hymenoptera	Formicidae 2				ETOH		2	5/15/2007	Spot
YEW	Riparian Imm 1	Arthropoda	Insecta	Diptera 2					ETOH		1	5/15/2007	Spot
YEW	Riparian Imm 1	Arthropoda	Insecta	Diptera 3					ETOH		1	5/15/2007	Spot
YEW	Riparian Imm 1	Arthropoda	Insecta	Diptera 4					ETOH			5/15/2007	Malaise
YEW	Riparian Imm 1	Arthropoda	Insecta	Diptera 5					ETOH		1	5/15/2007	Malaise
YEW	Riparian Imm 1	Arthropoda	Insecta	Diptera 6					ETOH		abundant	5/15/2007	Malaise
YEW	Riparian Imm 1	Arthropoda	Insecta	Diptera 7					ETOH		1	5/15/2007	Malaise
YEW	Riparian Imm 1	Arthropoda	Insecta	Diptera 8					ETOH		1	5/15/2007	Malaise
YEW	Riparian Imm 1	Arthropoda	Insecta	Odonata					Envelope		1	5/15/2007	Malaise
YEW	Riparian Imm 2	Arthropoda	Insecta	Hymenoptera					Pinned	1584, 1662	3	5/15/2007	Spot

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YEW	Riparian Imm 2	Arthropoda	Insecta	Odonata 1					Pinned		1	5/15/2007	Spot
YEW	Riparian Imm 2	Arthropoda	Insecta	Odonata 2					Envelope		1	5/15/2007	Spot
YEW	Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 2					Pinned	1693	1	5/15/2007	Spot
YEW	Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 3					Pinned	1807	1	5/15/2007	Spot
YEW	Riparian Imm 2	Arthropoda	Insecta	Lepidoptera					Bag		1	5/15/2007	Spot
YEW	Riparian Imm 2	Arthropoda	Insecta	Diptera 1					ETOH		3	5/15/2007	Malaise
YEW	Riparian Imm 2	Arthropoda	Insecta	Diptera 2					ETOH		4	5/15/2007	Malaise
YEW	Riparian Imm 2	Arthropoda	Insecta	Diptera 3					ETOH		5	5/15/2007	Malaise
YEW	Riparian Imm 2	Arthropoda	Insecta	Diptera 4					ETOH		1	5/15/2007	Malaise
YEW	Riparian Imm 2	Arthropoda	Insecta	Diptera 5					ETOH		2	5/15/2007	Malaise
YEW	Riparian Imm 2	Arthropoda	Insecta	Diptera 6					ETOH		1	5/15/2007	Malaise
YEW	Riparian Imm 2	Arthropoda	Insecta	Diptera 7					ETOH		3	5/15/2007	Malaise
YEW	Riparian Imm 2	Arthropoda	Insecta	Diptera 8					ETOH		1	5/15/2007	Malaise
YEW	Riparian Imm 2	Arthropoda	Insecta	Diptera 9					ETOH		1	5/15/2007	Malaise
YEW	Riparian Imm 2	Arthropoda	Insecta	Diptera 10					ETOH	1502	1	5/15/2007	Malaise
YEW	Riparian Imm 2	Arthropoda	Insecta	Diptera 11					ETOH		1	5/15/2007	Malaise
YEW	Riparian Imm 2	Arthropoda	Insecta	Diptera 12					ETOH		10	5/15/2007	Malaise
YEW	Riparian Imm 2	Arthropoda	Insecta	Diptera 13					ETOH		1	5/15/2007	Malaise
YEW	Riparian Imm 2	Arthropoda	Insecta	Diptera 14					ETOH		super abund	5/15/2007	Malaise
YEW	Riparian Imm 2	Arthropoda	Insecta	Diptera 15					ETOH		1	5/15/2007	Malaise
YEW	Riparian Imm 2	Arthropoda	Insecta	Diptera 16					ETOH		2	5/15/2007	Malaise
YEW	Riparian Imm 2	Arthropoda	Insecta	Diptera 17					ETOH		1	5/15/2007	Malaise
YEW	Riparian Imm 2	Arthropoda	Insecta	Diptera 18	Syrphidae				Pinned	1580	1	5/15/2007	Malaise
YEW	Riparian Imm 2	Arthropoda	Insecta	Diptera 19					Pinned	1659	1	5/15/2007	Malaise
YEW	Riparian Imm 2	Arthropoda	Insecta	Hymenoptera	Formicidae 1				Pinned	1690	6	5/15/2007	Spot
YEW	Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 4					Pinned	1412	1	5/15/2007	Malaise
YEW	Riparian Imm 2	Arthropoda	Insecta	Diptera	Syrphidae				4 Pinned	1523, 1534,	4	5/15/2007	Malaise
YEW	Riparian Imm 2	Arthropoda	Insecta	Diptera 20					1 Pinned	1660	2	5/15/2007	Malaise
YEW	Riparian Imm 2	Arthropoda	Insecta	Diptera 21							1	5/15/2007	Malaise
YEW	Riparian Imm 2	Arthropoda	Insecta	Hymenoptera	Formicidae 2				ETOH	1673	2	5/15/2007	Spot
YEW	Riparian Imm 2	Arthropoda	Insecta	Diptera 22					Pinned	1645		5/15/2007	Malaise
YEW	Riparian Imm 2	Arthropoda	Insecta	Diptera 23					None		2	5/15/2007	Malaise
YEW	Riparian Imm 2	Arthropoda	Insecta	Diptera 24					None		1	5/15/2007	Malaise
YEW	Riparian Imm 2	Arthropoda	Insecta	Hemiptera					Pinned	1735, 1734	2	5/15/2007	Malaise
YEW	Riparian Imm 3	Arthropoda	Insecta	Coleoptera 1					ETOH		6	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Coleoptera 2					ETOH		2	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 1							11	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Coleoptera	Staphylinidae 1							5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Coleoptera	Staphylinidae 2							5/12/2007	UV Light

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YEW	Riparian Imm 3	Arthropoda	Insecta	Hymenoptera	Formicidae 1				Pinned	1677	1	5/15/2007	Spot
YEW	Riparian Imm 3	Arthropoda	Insecta	Hymenoptera	Formicidae 2				Pinned	1678	1	5/15/2007	Spot
YEW	Riparian Imm 3	Arthropoda	Insecta	Hymenoptera	Formicidae 3				Pinned	1684, 1830	2	5/15/2007	Spot
YEW	Riparian Imm 3	Arthropoda	Insecta	Hymenoptera	Formicidae 4				Pinned	1681	2	5/15/2007	Spot
YEW	Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 2					Pinned	1413	1	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 3	Apidae				Pinned	1531	4	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Diptera 1					ETOH		super abund	5/15/2007	Malaise
YEW	Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 4					Pinned	1538	1	5/15/2007	Malaise
YEW	Riparian Imm 3	Arthropoda	Insecta	Diptera 2					ETOH		2	5/15/2007	Malaise
YEW	Riparian Imm 3	Arthropoda	Insecta	Diptera 3					ETOH		2	5/15/2007	Malaise
YEW	Riparian Imm 3	Arthropoda	Insecta	Diptera	Serfidae				Pinned	1530	1	5/15/2007	Malaise
YEW	Riparian Imm 3	Arthropoda	Insecta	Diptera 4					1 Pinned	1480	2	5/15/2007	Malaise
YEW	Riparian Imm 3	Arthropoda	Insecta	Coleoptera 3	Melolonthinae				2 pinned	1927, 1928	7	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Nueroptera	Myrmeleontidae 1				1 Pinned; 1 ETOH		2	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Lepidoptera	Noctuidae	Helicoverpa	zea		Pinned	1431	1	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Lepidoptera	Noctuidae	Spodoptera	exigua		Pinned	1438	14	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 1					Pinned	1430	3	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 2					Pinned	1437, 1448	2	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Coleoptera 4	Scarabidae				1 Pinned	1929	3	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Coleoptera 5					2 pinned	1611, 1612	23	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Coleoptera 6					Pinned	1636- 1637	2	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Coleoptera 7					Pinned	1903	1	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Coleoptera 8					Pinned	1904	1	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Coleoptera 9					Pinned	1589	1	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Coleoptera 10	Carabidae				Pinned	1590-1591	2	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Coleoptera 11					Pinned	1613	1	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 5					2 pinned	1701, 1703	7	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Trichoptera 1					ETOH		3	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Coleptera	Staphylinidae 3				ETOH		7	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 6					1 Pinned	1771	7	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 7					1 Pinned	1783	7	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 8					1 Pinned	1787	5	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Nueroptera	Chrysopidae				Pinned		1	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Nueroptera	Myrmeleontidae 2				ETOH		1	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Diptera 5					1Pinned	1658	3	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 3					ETOH		medium	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Coleoptera 12					ETOH		1	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Diptera 6					ETOH		3	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Diptera 7					ETOH		2	5/12/2007	UV Light

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YEW	Riparian Imm 3	Arthropoda	Insecta	Diptera 8					ETOH		1	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Lepidoptera		Spodoptera	exigua		None		11	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 4					Pinned	1432, 1433	6	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 5					Pinned	1426-1429	4	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 6							2	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Trichoptera 2					ETOH		2	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 7							4	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 8							2	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 9					Pinned	1425	2	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 10							2	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 11					Pinned	1424	1	5/12/2007	UV Light
YEW	Riparian Imm 3	Arthropoda	Insecta	Hymenoptera					Pinned	1514	1	5/15/2007	Malaise
YEW	Riparian Imm 3	Arthropoda	Insecta	Hymenoptera					Pinned	1487	1	5/15/2007	Malaise
YEW	Riparian Imm 3	Arthropoda	Insecta	Nueroptera					Pinned	1710	1	5/12/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Coleoptera	Scarabidae 1				Pinned	1918, 1919	2	5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Diptera 1					ETOH			5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Diptera 2					ETOH			5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Diptera 3					ETOH			5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Coleopetera 1					ETOH			5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Coleopetera 2					ETOH			5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 1					ETOH			5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 1							1	5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Coleoptera	Scarabidae 2				pinned	1920-1924	5	5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Neuroptera	Chrysopidae				pinned	1712	1	5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Coleoptera	Coccinellidae						4	5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Coleoptera 4					pinned	1945-1946	2	5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Coleoptera 5	Eloteridae				Pinned	1635	1	5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Coleoptera 6						1926	1	5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Coleoptera 7							10	5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Coleoptera 8	Carabiidae				Pinned	1902, 1905-1	4	5/13/2007	UV Light
	Restored Rip. 3	Arthropoda	Insecta	Coleoptera	Coccinellidae				Pinned	1596, 1595	2		UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Coleoptera 9					Pinned	1925	2	5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Coleoptera 10					Pinned	1597- 1598	2	5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Coleoptera 11					Pinned	1599	2	5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Diptera	Chironomidae 1						medium	5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Diptera 4							few	5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Hemiptera	Cicadellidae						few	5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 2							few	5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 2					Pinned		1	5/13/2007	UV Light

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YWW	Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 3					Pinned		1	5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Coleoptera 12					ETOH		abundant	5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Coleoptera 13					ETOH		abundant	5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Coleoptera 14					ETOH		abundant	5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Coleoptera 15					ETOH		abundant	5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Coleoptera 16					ETOH		abundant	5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Diptera 5					ETOH		abundant	5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Diptera 6					ETOH		abundant	5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Diptera 7					ETOH		abundant	5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Diptera 8					ETOH		abundant	5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Homoptera 1					ETOH		abundant	5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Homoptera 2					ETOH		abundant	5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Homoptera	Aphididae				ETOH		super abund	5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 3					Pinned	1947	1	5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 4							6	5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Coleoptera	Staphylinidae				ETOH		4	5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Diptera 9					Pinned	1505	1	5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 4					Pinned	1768	1	5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Hymenoptera	Formicidae 1				Pinned	1661	4	5/17/2007	Spot
YWW	Restored Rip. 3	Arthropoda	Insecta	Hymenoptera	Formicidae 2				Pinned	1672	6	5/17/2007	Spot
YWW	Restored Rip. 3	Arthropoda	Insecta	Hymenoptera	Formicidae 3				Pinned	1686	1	5/17/2007	Spot
YWW	Restored Rip. 3	Arthropoda	Insecta	Mantodea							1	5/17/2007	Spot
YWW	Restored Rip. 3	Arthropoda	Insecta	Odonata 1					Envelope		1	5/17/2007	Spot
YWW	Restored Rip. 3	Arthropoda	Insecta	Odonata 2					Envelope		1	5/17/2007	Spot
YWW	Restored Rip. 3	Arthropoda	Insecta	Diptera	Serfidae 1				none		3	5/17/2007	Spot
YWW	Restored Rip. 3	Arthropoda	Insecta	Diptera 9					ETOH		abundant	5/17/2007	Malaise
YWW	Restored Rip. 3	Arthropoda	Insecta	Diptera 10					ETOH		9	5/17/2007	Malaise
YWW	Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 5					ETOH		3	5/17/2007	Malaise
YWW	Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 6					ETOH		3	5/17/2007	Malaise
YWW	Restored Rip. 3	Arthropoda	Insecta	Coleoptera 17					ETOH		1	5/17/2007	Malaise
YWW	Restored Rip. 3	Arthropoda	Insecta	Diptera	Chironomidae 2				ETOH		1	5/17/2007	Malaise
YWW	Restored Rip. 3	Arthropoda	Insecta	Diptera	Chironomidae 3				ETOH		1	5/17/2007	Malaise
YWW	Restored Rip. 3	Arthropoda	Insecta	Diptera 11					pinned	1472	2	5/17/2007	Malaise
YWW	Restored Rip. 3	Arthropoda	Insecta	Diptera 13					ETOH		10	5/17/2007	Malaise
YWW	Restored Rip. 3	Arthropoda	Insecta	Diptera 14					ETOH		3	5/17/2007	Malaise
YWW	Restored Rip. 3	Arthropoda	Insecta	Diptera 15					pinned	1498	1	5/17/2007	Malaise
YWW	Restored Rip. 3	Arthropoda	Insecta	Diptera	Serfidae 2				2 pinned; 11 in ETOH	1559, 1558	12	5/17/2007	Malaise
YWW	Restored Rip. 3	Arthropoda	Insecta	Diptera 16					ETOH		3	5/17/2007	Malaise
YWW	Restored Rip. 3	Arthropoda	Insecta	Diptera 17					pinned	1526	2	5/17/2007	Malaise

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YWW	Restored Rip. 3	Arthropoda	Insecta	Hymenoptera	Formicidae 4				ETOH		1	5/17/2007	Malaise
YWW	Restored Rip. 3	Arthropoda	Insecta	Diptera 18					pinned	1790	1	5/17/2007	Malaise
YWW	Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 7					pinned	1794	1	5/13/2007	UV Light
YWW	Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 8					pinned	1806	1	5/13/2007	UV Light
YWW	Restored Rip. 5	Arthropoda	Insecta	Hymenoptera	Formicidae 1				ETOH	1671, 1831	3	5/17/2007	Spot
YWW	Restored Rip. 5	Arthropoda	Insecta	Hymenoptera	Formicidae 2				ETOH	1675, 1832	5	5/17/2007	Spot
YWW	Restored Rip. 5	Arthropoda	Insecta	Lepidoptera 1					ETOH		1	5/17/2007	Spot
YWW	Restored Rip. 5	Arthropoda	Insecta	Diptera 1					Pin	1476	1	5/17/2007	Malaise
YWW	Restored Rip. 5	Arthropoda	Insecta	Diptera 2					ETOH		abundant	5/17/2007	Malaise
YWW	Restored Rip. 5	Arthropoda	Insecta	Diptera 3					ETOH		9	5/17/2007	Malaise
YWW	Restored Rip. 5	Arthropoda	Insecta	Hymenoptera 1					ETOH		1	5/17/2007	Malaise
YWW	Restored Rip. 5	Arthropoda	Insecta	Diptera 4					ETOH		1	5/17/2007	Malaise
YWW	Restored Rip. 5	Arthropoda	Insecta	Diptera 5					ETOH		1	5/17/2007	Malaise
YWW	Restored Rip. 5	Arthropoda	Insecta	Hymenoptera 2					ETOH		2	5/17/2007	Malaise
YWW	Restored Rip. 5	Arthropoda	Insecta	Diptera	Serfidae 1				2 pinned; 25 in ETOH	1536, 1525	28	5/17/2007	Malaise
YWW	Restored Rip. 5	Arthropoda	Insecta	Hymenoptera 3					2 pinned; 3 in ETOH	1697	5	5/17/2007	Malaise
YWW	Restored Rip. 5	Arthropoda	Insecta	Diptera	Mosca				1 pinned		13	5/17/2007	Malaise
YWW	Restored Rip. 5	Arthropoda	Insecta	Diptera 6					pinned		1	5/17/2007	Malaise
YWW	Restored Rip. 5	Arthropoda	Insecta	Diptera	Serfidae 2				pinned	1541	1	5/17/2007	Spot
YWW	Restored Rip. 5	Arthropoda	Insecta	Diptera 7						1513	1	5/17/2007	Spot
YWW	Restored Rip. 5	Arthropoda	Insecta	Diptera 8					pinned	1499	1	5/17/2007	Spot
YWW	Restored Rip. 5	Arthropoda	Insecta	Diptera	Serfidae 3				none		2	5/17/2007	Spot
YWW	Restored Rip. 5	Arthropoda	Insecta	Homoptera	Aphididae						1	5/17/2007	Spot
YWW	Restored Rip. 5	Arthropoda	Insecta	Lepidoptera 2							1	5/17/2007	Spot
YWW	Restored Rip. 5	Arthropoda	Insecta	Diptera 9					pinned	1793	1	5/17/2007	Malaise
YWW	Restored Rip. 5	Arthropoda	Insecta	Hymenoptera 4					pinned	1485	1	5/17/2007	Spot
YWW	Restored Rip. 6	Arthropoda	Insecta	Diptera	Culicidae						1	5/17/2007	Spot
YWW	Restored Rip. 6	Arthropoda	Insecta	Myrmelontidae					Pinned	1738	1	5/17/2007	Spot
YWW	Restored Rip. 6	Arthropoda	Arachnida								1	5/17/2007	Spot
YWW	Restored Rip. 6	Arthropoda	Insecta	Diptera	Serfidae 1						3	5/17/2007	Spot
YWW	Restored Rip. 6	Arthropoda	Insecta	Hymenoptera	Formicidae					1688	4	5/17/2007	Spot
YWW	Restored Rip. 6	Arthropoda	Insecta	Hymenoptera	Apidae				Pinned		1	5/17/2007	Spot
YWW	Restored Rip. 6	Arthropoda	Insecta	Diptera 1					ETOH		abundant	5/17/2007	Malaise
YWW	Restored Rip. 6	Arthropoda	Insecta	Diptera 2					ETOH		medium	5/17/2007	Malaise
YWW	Restored Rip. 6	Arthropoda	Insecta	Diptera 3					ETOH		few	5/17/2007	Malaise
YWW	Restored Rip. 6	Arthropoda	Insecta	Diptera	Serfidae 2				none		11	5/17/2007	Malaise
YWW	Restored Rip. 6	Arthropoda	Insecta	Diptera	Mosca				1 pinned	1473	3	5/17/2007	Malaise
YWW	Restored Rip. 6	Arthropoda	Insecta	Diptera	Asilidae				Pinned	1466	1	5/17/2007	Malaise
YWW	Restored Rip. 6	Arthropoda	Insecta	Diptera 4					Pinned	1496	1	5/17/2007	Malaise

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YWW	Restored Rip. 6	Arthropoda	Insecta	Diptera 5	Serfidae				Pinned	1539	2	5/17/2007	Malaise
YWW	Restored Rip. 6	Arthropoda	Insecta	Diptera 6					Pinned	1495	1	5/17/2007	Malaise
YWW	Restored Rip. 6	Arthropoda	Insecta	Hymenoptera					Pinned	1506	1	5/17/2007	Malaise
YWW	Restored Rip. 6	Arthropoda	Insecta	Diptera 7					none		1	5/17/2007	Malaise
YWW	Restored Rip. 6	Arthropoda	Insecta	Diptera 8					Pinned	1507	1	5/17/2007	Malaise
YWW	Restored Rip. 6	Arthropoda	Insecta	Hymenoptera 3					3 Pinned	1695, 1694,	6	5/17/2007	Malaise
YWW	Restored Rip. 6	Arthropoda	Insecta	Hymenoptera 4					Pinned	1535	1	5/17/2007	Malaise
YWW	Restored Rip. 6	Arthropoda	Insecta	Diptera 9					Pinned		2	5/17/2007	Malaise
YWW	Restored Rip. 6	Arthropoda	Insecta	Hymenoptera 5					Pinned		1	5/17/2007	Malaise
YWW	Restored Rip. 6	Arthropoda	Insecta	Hymenoptera 6	Apidae 2				Pinned	1497	1	5/17/2007	Malaise
YEW	Control Riparian 2	Arthropoda	Insecta	Diptera 1					ETOH		abundant	5/20/2007	Malaise
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 1					Pinned	1453, 1452	5	5/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 2	Pralidae	Petrophila	jaliscalis		Pinned	1451	1	5/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 3					Pinned	1459	few	5/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 4							medium	5/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera	Noctuidae	Spodoptera	exigua				abundant	5/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Diptera 2					ETOH		4	5/20/2007	Malaise
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera	Formicidae 1				ETOH		1	5/20/2007	Malaise
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 5					Pinned	1456	few	5/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 6							few	5/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 7					Pinned	1457	few	5/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 8							2	5/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 9					Pinned	1458, 1459	few	5/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 10					Pinned	1455	2	5/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera	Scarabidae 1				Pinned	1936	1	5/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 1	Scarabidae 2				2 pinned	1937, 1938	4	5/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 2	Eloteridae				Pinned	1633	medium	5/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 3					2 pinned	1592, 1593	few	5/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 1							3	5/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 2					Pinned	1774	few	5/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 3					Pinned	1786, 1784	few	5/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 4					Pinned	1634	few	5/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 4					Pinned	1702	few	5/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Diptera	Chironomidae				ETOH		few	5/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera	Staphylinidae				ETOH		medium	5/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Diptera 3					ETOH		abundant	5/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Diptera 4					ETOH		abundant	5/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Hemiptera	Cicadellidae				ETOH		abundant	5/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Diptera 5					ETOH		few	5/14/2007	UV Light

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YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 5					ETOH		few	5/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 6					ETOH		few	5/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 11							few	5/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 12					pinned	1460	few	5/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 13							few	5/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera	Apidae				Pinned		1	5/20/2007	Spot
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 5					Pinned	1816	1	5/20/2007	Spot
YEW	Control Riparian 2	Arthropoda	Insecta	Diptera 6					Pinned		1	5/20/2007	Spot
YEW	Control Riparian 2	Arthropoda	Insecta	Neuroptera					Pinned	1714	1	5/20/2007	Spot
YEW	Control Riparian 2	Arthropoda	Insecta	Diptera	Serfidae				Pinned		2	5/20/2007	Spot
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera	Formicidae 2				Pinned	1667	1	5/20/2007	Spot
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera	Formicidae 3				Pinned	1698	1	5/20/2007	Spot
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera	Formicidae 4				Pinned	1687	3	5/20/2007	Spot
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera	Formicidae 5				Pinned	1674	1	5/20/2007	Spot
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera					Pinned	1706	1	5/20/2007	Spot
	Control Riparian 2	Arthropoda	Insecta	Lepidoptera	Lyaeacnidae	Hemiargus	ceranus	gyas	Pinned		1	5/20/2007	Spot
YEW	Control Riparian 4	Arthropoda	Insecta	Hemiptera	Aphididae 1						1	5/14/2007	Malaise
YEW	Control Riparian 4	Arthropoda	Insecta	Diptera	Chironomidae						abundant	5/14/2007	Malaise
YEW	Control Riparian 4	Arthropoda	Insecta	Diptera 1							1	5/20/2007	Spot
YEW	Control Riparian 4	Arthropoda	Insecta	Hymenoptera	Formicidae 1				Pinned	1670	3	5/20/2007	Spot
YEW	Control Riparian 4	Arthropoda	Insecta	Hymenoptera	Formicidae 2				Pinned	1679	medium	5/20/2007	Spot
YEW	Control Riparian 4	Arthropoda	Insecta	Hymenoptera	Formicidae 3				Pinned	1837	1	5/20/2007	Spot
YEW	Control Riparian 4	Arthropoda	Arachnida 1						ETOH		1	5/20/2007	Spot
YEW	Control Riparian 4	Arthropoda	Arachnida 2						ETOH		1	5/20/2007	Spot
YEW	Control Riparian 4	Arthropoda	Arachnida 3						ETOH		1	5/20/2007	Spot
YEW	Control Riparian 4	Arthropoda	Insecta	Hemiptera	Aphididae 2						1	5/20/2007	Spot
YEW	Control Riparian 4	Arthropoda	Insecta	Diptera 2					ETOH		1	5/20/2007	Spot
YEW	Control Riparian 4	Arthropoda	Insecta	Odonata					Envelope		2	5/20/2007	Spot
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 1					Pinned	1788, 1782	4	5/14/2007	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 2					Pinned	1540	3	5/14/2007	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Hymenoptera 1					Pinned	1524	2	5/14/2007	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera	Asilidae				Pinned	1908	1	5/14/2007	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera	Serfidae 1				Pinned	1516	1	5/14/2007	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 3					Pinned	1511		5/14/2007	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Hymenoptera 2					Pinned	1801	1	5/14/2007	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 4					ETOH		2	5/14/2007	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Lepidoptera							2	5/14/2007	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Hymenoptera	Apidae				Pinned		2	5/20/2007	Spot
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 5					Pinned	1471	1	5/20/2007	Spot

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Invert ID Number	Number	Date Collected	Method of Collection
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera	Serfidae 2				Pinned		1	5/20/2007	Spot
YEW	Control Riparian 5	Arthropoda	Arachnida 1						ETOH		1	5/20/2007	Spot
YEW	Control Riparian 5	Arthropoda	Arachnida 2						ETOH		1	5/20/2007	Spot
YEW	Control Riparian 5	Arthropoda	Arachnida 3						ETOH		1	5/20/2007	Spot
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 6					ETOH		1	5/20/2007	Spot
YEW	Control Riparian 5	Arthropoda	Insecta	Hymenoptera	Formicidae				Pinned	1669	2	5/20/2007	Spot
YEW	Control Riparian 5	Arthropoda	Insecta	Coleoptera							1	5/14/2007	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Hemiptera	Cicadellidae						3	5/14/2007	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera	Chironomidae						4	5/14/2007	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Hymenoptera 3							1	5/14/2007	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 7							super abund	5/14/2007	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 8					Pinned	1651	1	5/14/2007	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 9							1	5/14/2007	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 10							abundant	5/14/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Odonata 1					Envelope		1	5/11/2007	Spot
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Odonata 2					Envelope		1	5/11/2007	Spot
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Orthoptera 1					Pinned	1741, 1742	2	5/11/2007	Spot
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Coleoptera 1					Pinned		1	5/11/2007	Spot
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Homoptera					Pinned	1737	1	5/11/2007	Spot
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Diptera 1					Pinned		1	5/11/2007	Spot
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Coleoptera 2					Pinned		1	5/11/2007	Spot
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 1					Pinned		1	5/11/2007	Spot
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Diptera 2					Pinned		1	5/11/2007	Spot
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 2	Ichneuemonidae?				Pinned	1802	1	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 3					2 Pinned	1799, 1798	5	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Diptera 3					Pinned	1554	4	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Diptera 4					ETOH		4	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Lepidoptera 1							18	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Lepidoptera 2							1	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Lepidoptera 3							3	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Lepidoptera 4							1	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Diptera 5							23	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Arachnida 1						ETOH		1	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Diptera 6							4	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Diptera	Culicidae						6	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Hymenoptera							1	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Hymenoptera							1	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Hemiptera							2	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Lepidoptera 5							1	5/11/2007	Malaise

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BWNWR	Riparian Cott 2	Arthropoda	Insecta	Coleoptera 3					pinned	1894	1	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Hemiptera					Pinned	1736	1	5/11/2007	Spot
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Coleoptera	Scarabidae				Pinned	1939	1	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Diptera	Syrphidae				none			5/11/2007	Spot
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Diptera					Pinned	1576	1	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Lepidoptera 6							super abund	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Lepidoptera 7							super abund	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Lepidoptera 8							super abund	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Lepidoptera 9							super abund	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Lepidoptera 10							super abund	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Lepidoptera 11							super abund	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Lepidoptera 12							super abund	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Lepidoptera 13							super abund	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Lepidoptera 14							super abund	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Lepidoptera 15							super abund	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Lepidoptera 16							super abund	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Lepidoptera 17							super abund	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Lepidoptera 18							super abund	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Lepidoptera 19							super abund	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Lepidoptera 20							super abund	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Hemiptera	Aphididae						abundant	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Diptera	Chironomidae 1						abundant	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Diptera	Chironomidae 2						abundant	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Diptera 7							abundant	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Coleoptera	Staphylinidae						2	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Coleoptera 4							3	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 4							1	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 5							2	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 6							2	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Coleoptera 5							7	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Orthoptera 2							1	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Coleoptera 6							2	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Coleoptera 7							3	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Coleoptera 8							1	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Coleoptera 9							1	5/11/2007	Malaise
BWNWR	Riparian Cott 2	Arthropoda	Arachnida 2						ETOH		1	5/11/2007	Spot
BWNWR	Riparian Cott 2	Annelida							ETOH		1	5/11/2007	Spot
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Hymenoptera	Formicidae 6				pinned	1833, 1834	8	5/11/2007	Spot
BWNWR	Riparian Cott 2	Arthropoda	Insecta	Hymenoptera	Formicidae 7				pinned	1700	3	5/11/2007	Spot

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BWNWR	Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 1					Pinned	1803, 1810	3	5/11/2007	Malaise
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 2					Pinned	1691	1	5/11/2007	Malaise
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Diptera 1					Pinned	1475	1	5/11/2007	Malaise
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Diptera 2					Pinned	1542, 1644	3	5/11/2007	Malaise
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Diptera	Asilidae 1				Pinned	1465	1	5/11/2007	Malaise
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 1					Pinned	1705	1	5/11/2007	Malaise
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 2					Pinned	1663	1	5/11/2007	Malaise
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Diptera 3					Pinned		1	5/11/2007	Malaise
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 3					1 Pinned	1809	2	5/11/2007	Malaise
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Diptera 4					Pinned	1647, 1650,	4	5/11/2007	Malaise
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Diptera 5					Pinned	1549, 1575	2	5/11/2007	Malaise
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Diptera 6					Pinned		1	5/11/2007	Malaise
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 4					Pinned		1	5/11/2007	Malaise
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 5					Pinned	1666, 1572	1	5/11/2007	Malaise
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Coleoptera	Tenebrionidae				Pinned	1461	1	5/11/2007	Malaise
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Coleoptera	Scarabidae 1				Pinned	1912, 1913	2	5/11/2007	UV Light
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Coleoptera 1	Chrysomelidae				Pinned	1604	1	5/11/2007	UV Light
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Mantodea								5/11/2007	Malaise
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 6							3	5/11/2007	Malaise
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Diptera 7							2	5/11/2007	Malaise
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 1					4 pinned	1439-1442	10	5/11/2007	UV Light
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Diptera 8							1	5/11/2007	Malaise
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Coleoptera 2							1	5/11/2007	UV Light
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 2							1	5/11/2007	UV Light
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 3					Pinned	1418	1	5/11/2007	UV Light
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Coleoptera 3	Carabidae				Pinned	1899	1	5/11/2007	UV Light
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 7					1 pinned	1792	5	5/11/2007	UV Light
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 4					pinned	1420, 1421,	abundant	5/11/2007	UV Light
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 5					Pinned	1446	few	5/11/2007	UV Light
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 6					Pinned	1444	few	5/11/2007	UV Light
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 7					1 Pinned	1422	few	5/11/2007	UV Light
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 8					1 Pinned	1419	few	5/11/2007	UV Light
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Coleoptera 4	Scarabidae 2				4 pinned	1914-1917	4	5/11/2007	UV Light
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 8					Pinned	1769, 1808	3	5/11/2007	UV Light
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 9					Pinned	1704	1	5/11/2007	UV Light
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 9							1	5/11/2007	UV Light
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 10					Pinned	1443	1	5/11/2007	UV Light
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Coleoptera 5					Pinned	1462, 1890-1	4	5/11/2007	UV Light
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Coleoptera 6					Pinned	1638-1639	2	5/11/2007	UV Light

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BWNWR	Riparian Cott 4	Arthropoda	Insecta	Coleoptera 7					Pinned	1944	2	5/11/2007	UV Light
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Coleoptera 8					Pinned	1942, 1943	2	5/11/2007	UV Light
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Diptera 9					Pinned	1573	2	5/11/2007	UV Light
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Coleoptera 9							1	5/11/2007	UV Light
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 10							2	5/11/2007	UV Light
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Diptera	Culicidae				ETOH		1	5/11/2007	UV Light
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Diptera	Chironomidae				ETOH		7	5/11/2007	UV Light
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Diptera 10					ETOH		1	5/11/2007	UV Light
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Hemiptera	Cicadellidae				ETOH		1	5/11/2007	UV Light
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Coleoptera 10					Pinned	1893	2	5/11/2007	UV Light
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Ephemeroptera					ETOH		1	5/11/2007	UV Light
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 11							1	5/11/2007	UV Light
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 12							1	5/11/2007	UV Light
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Diptera 11							1	5/11/2007	Spot
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Coleoptera 10	Chrysomelidae				Pinned	1600-1603	4	5/11/2007	Spot
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Hymenoptera	Apidae						1	5/11/2007	Spot
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Diptera	Asilidae 2				Pinned	1467	1	5/11/2007	Spot
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Coleoptera	Coccinellidae				Pinned	1605	1	5/11/2007	Spot
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Odonata 1					Envelope		1	5/11/2007	Spot
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Odonata 2					Envelope		1	5/11/2007	Spot
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Lepidoptera	Nymphalidae	Limnitis	archippus	obsoleta	Pinned	1410	1	5/11/2007	Spot
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Diptera 12					ETOH		12	5/11/2007	Spot
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Diptera 13					ETOH		3	5/11/2007	Spot
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Diptera 14					ETOH		few	5/11/2007	Spot
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 11					ETOH		1	5/11/2007	Spot
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Diptera 15					ETOH		1	5/11/2007	Spot
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Diptera 16					ETOH		2	5/11/2007	Spot
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Diptera 17					ETOH		2	5/11/2007	Spot
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Diptera 18					ETOH		few	5/11/2007	Spot
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Diptera 19					ETOH		8	5/11/2007	Spot
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Diptera 20					Pinned	1566	1	5/11/2007	UV Light
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Hymenoptera	Formicidae				Pinned	1676	1	5/11/2007	Spot
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 11					Pinned	1565	1	5/11/2007	Malaise
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Lepidoptera	Sphinx	Laothoe			Pinned	1417	1	5/11/2007	UV Light
BWNWR	Riparian Cott 4	Arthropoda	Insecta	Diptera 21					Pinned	1551	1	5/11/2007	Malaise
BWNWR	Riparian Cott 5	Arthropoda	Insecta	Diptera 22					Pinned	1503	1	5/11/2007	Malaise
BWNWR	Riparian Cott 5	Arthropoda	Insecta	Diptera 23					Pinned	1477	1	5/11/2007	Malaise
BWNWR	Riparian Cott 6	Arthropoda	Insecta	Diptera 1					ETOH		9	5/11/2007	Malaise
BWNWR	Riparian Cott 6	Arthropoda	Insecta	Diptera 2					ETOH		86	5/11/2007	Malaise

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BWNWR	Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 1					ETOH		15	5/11/2007	Malaise
BWNWR	Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 2					ETOH		9	5/11/2007	Malaise
BWNWR	Riparian Cott 6	Arthropoda	Insecta	Diptera 3							2	5/11/2007	Malaise
BWNWR	Riparian Cott 6	Arthropoda	Insecta	Diptera 4					ETOH		10	5/11/2007	Malaise
BWNWR	Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 3							11	5/11/2007	Malaise
BWNWR	Riparian Cott 6	Arthropoda	Insecta	Diptera 5							15	5/11/2007	Malaise
BWNWR	Riparian Cott 6	Arthropoda	Insecta	Diptera 6							13	5/11/2007	Malaise
BWNWR	Riparian Cott 6	Arthropoda	Insecta	Diptera 7							7	5/11/2007	Malaise
BWNWR	Riparian Cott 6	Arthropoda	Insecta	Diptera	Asilidae				Pinned	1464	1	5/11/2007	Malaise
BWNWR	Riparian Cott 6	Arthropoda	Insecta	Diptera 8							2	5/11/2007	Malaise
BWNWR	Riparian Cott 6	Arthropoda	Insecta	Diptera	Serfidae				Pinned	1515	1	5/11/2007	Malaise
BWNWR	Riparian Cott 6	Arthropoda	Insecta	Diptera 9							4	5/11/2007	Malaise
BWNWR	Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 4					Pinned	1699	1	5/11/2007	Malaise
BWNWR	Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 5					Bag		2	5/11/2007	Malaise
BWNWR	Riparian Cott 6	Arthropoda	Insecta	Diptera 10					Bag		5	5/11/2007	Malaise
BWNWR	Riparian Cott 6	Arthropoda	Insecta	Diptera 11					Bag		1	5/11/2007	Malaise
BWNWR	Riparian Cott 6	Arthropoda	Insecta	Diptera 12					Bag		1	5/11/2007	Malaise
BWNWR	Riparian Cott 6	Arthropoda	Insecta	Diptera 13					Bag		3	5/11/2007	Malaise
BWNWR	Riparian Cott 6	Arthropoda	Insecta	Diptera 14					Bag		1	5/11/2007	Malaise
BWNWR	Riparian Cott 6	Arthropoda	Insecta	Diptera 15					Bag		1	5/11/2007	Malaise
BWNWR	Riparian Cott 6	Arthropoda	Insecta	Coleoptera 1							2	5/11/2007	Malaise
BWNWR	Riparian Cott 6	Arthropoda	Insecta	Hymenoptera	Formicidae 1				Pinned	1668	3	5/11/2007	Spot
BWNWR	Riparian Cott 6	Arthropoda	Insecta	Hymenoptera	Formicidae 2				Pinned	1680	4	5/11/2007	Spot
BWNWR	Riparian Cott 6	Mollusca	Gastropoda	Basommatophora					ETOH		9	5/11/2007	Spot
BWNWR	Riparian Cott 6	Arthropoda	Arachnida						ETOH		1	5/11/2007	Spot
BWNWR	Riparian Cott 6	Arthropoda	Insecta	Odonata 1					Envelope		2	5/11/2007	Spot
BWNWR	Riparian Cott 6	Arthropoda	Insecta	Odonata 2					Envelope		2	5/11/2007	Spot
BWNWR	Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 6					Pinned	1665	1	5/11/2007	Malaise
BWNWR	Riparian Cott 6	Arthropoda	Insecta	Coleoptera 2	Coccinellidae				Pinned	1606-1608	3	5/11/2007	Spot
BWNWR	Riparian Cott 6	Arthropoda	Insecta	Coleoptera 3	Chrysomelidae				Pinned	1609-1610	2	5/11/2007	Spot
BWNWR	Riparian Cott 6	Arthropoda	Insecta	Coleoptera 4	Curculionidae				Pinned	1594	1	5/11/2007	Spot
BWNWR	Riparian Cott 6	Arthropoda	Insecta	Orthoptera					Pinned	1743	1	5/11/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleptera 1	Scarabidae				Pinned	1930-1935	6	5/13/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 1					Pinned	1707, 1708	2	5/13/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 2					Pinned	1785, 1780,	3	5/13/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 3					Pinned	1781	1	5/13/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleptera 2							1	5/13/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleptera 3							5	5/13/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleptera	Staphylinidae				ETOH		abundant	5/13/2007	UV Light

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Invert ID Number	Number	Date Collected	Method of Collection
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 1					ETOH		abundant	5/13/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera 4					ETOH		abundant	5/13/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 2					ETOH		abundant	5/13/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Neuroptera					Pinned	1711	1	5/13/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 3	Tabanidae				Pinned	1493	1	5/13/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 4					Pinned	1557	1	5/13/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 5					Pinned		1	5/13/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Orthoptera					Pinned	1740	1	5/13/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera	Coccinellidae				Pinned	1623-1625	3	5/13/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hemiptera	Cicadellidae 1				Pinned	1724	1	5/13/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hemiptera	Cicadellidae 2				Pinned	1719	1	5/13/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hemiptera	Cicadellidae 3				Pinned	1713, 1721,	3	5/13/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hemiptera	Aphididae				ETOH		1	5/13/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hemiptera					ETOH		2	5/13/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Arachnida						ETOH		2	5/13/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera	Chironomidae				ETOH		4	5/13/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera	Formicidae 1				ETOH		3	5/13/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera	Formicidae 2				ETOH		3	5/13/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 6					ETOH		33	5/13/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 7					ETOH		3	5/13/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 8					ETOH		7	5/13/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 9					ETOH		3	5/13/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 10					ETOH		1	5/13/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 11					ETOH		6	5/13/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 12					ETOH		1	5/13/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 13	Asilidae				Pinned	1463	1	5/13/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 1					Pinned	1449	1	5/13/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 2					Pinned	1450	1	5/13/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera 5					3 Pinned	1629-1631	5	5/13/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera 6					Pinned	1632	1	5/13/2007	Spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera	Asilidae				Pinned		1	5/13/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 1							1	5/13/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 2							3	5/13/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 3							2	5/13/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 4							2	5/13/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera	Culicidae						1	5/13/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Homoptera 1							2	5/13/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hymenoptera	Apidae				Pinned	1508	1	5/13/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hemiptera	Cicadellidae 1				3 Pinned	1732, 1731,	4	5/13/2007	Malaise

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Invert ID Number	Number	Date Collected	Method of Collection
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hemiptera	Cicadellidae 2				Pinned	1726	1	5/13/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hemiptera	Cicadellidae 3				Pinned	1720	1	5/13/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hemiptera	Cicadellidae 4				Pinned	1718, 1717	3	5/13/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Lepidoptera 1							1	5/13/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hymenoptera	Formicidae 1				ETOH		3	5/13/2007	Spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hymenoptera	Formicidae 2				ETOH		2	5/13/2007	Spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hymenoptera	Formicidae 3				ETOH		5	5/13/2007	Spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Lepidoptera 2					ETOH		3	5/13/2007	Spot
YEW	Adjacent Ag 2	Arthropoda	Arachnida 1						ETOH		1	5/13/2007	Spot
YEW	Adjacent Ag 2	Arthropoda	Arachnida 2						ETOH		1	5/13/2007	Spot
YEW	Adjacent Ag 2	Arthropoda	Arachnida 3						ETOH		1	5/13/2007	Spot
YEW	Adjacent Ag 2	Arthropoda	Arachnida 4						ETOH		2	5/13/2007	Spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 6					ETOH		1	5/13/2007	Spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 7					ETOH		1	5/13/2007	Spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 8					ETOH		1	5/13/2007	Spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Odonata							1	5/13/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera	Chironomidae						super abund	5/13/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 9							4	5/13/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 10							3	5/13/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 11							2	5/13/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 12							9	5/13/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 13							1	5/13/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Homoptera 2							1	5/13/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hemiptera	Cicadellidae 5						1	5/13/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 14							few	5/13/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera	Formicidae 1				Pinned	1685	3	5/13/2007	Spot
YEW	Adjacent Ag 5	Arthropoda	Insecta	Coleoptera 1							1	5/13/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 1					Pinned	1545	3	5/13/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 2					Pinned	1492	2	5/13/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 3					Pinned		1	5/13/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 4					Pinned	1470	1	5/13/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Lepidoptera							2	5/13/2007	Spot
YEW	Adjacent Ag 5	Arthropoda	Insecta	Coleoptera	Coccinellidae				Pinned	1614, 1615	2	5/13/2007	Spot
YEW	Adjacent Ag 5	Arthropoda	Insecta	Odonata					Envelope		1	5/13/2007	Spot
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera	Apidae						1	5/13/2007	Spot
YEW	Adjacent Ag 5	Arthropoda	Insecta	Coleoptera 2					Pinned	1616	1	5/13/2007	Spot
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hemiptera					Pinned	1725, 1728	2	5/13/2007	Spot
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hemiptera					Pinned	1727, 1715,	3	5/13/2007	Spot
YEW	Adjacent Ag 5	Arthropoda	Arachnida						ETOH		2	5/13/2007	Spot

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Invert ID Number	Number	Date Collected	Method of Collection
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 5					ETOH		few	5/13/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 6					ETOH		abundant	5/13/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 7					ETOH		few	5/13/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 8					ETOH		medium	5/13/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 9					ETOH		3	5/13/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera 1					ETOH		1	5/13/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera 2					ETOH		1	5/13/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera 3					ETOH		1	5/13/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera 4					ETOH		1	5/13/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera 5					ETOH		1	5/13/2007	Malaise

Research AWPf Invertebrate Database July 2007

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 1					Pinned	1	155	1	6/29/2007	UV Light
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera	Staphylinidae 1				None			medium	6/29/2007	UV Light
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 2					Pinned	1	156	1	6/29/2007	UV Light
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 1					Pinned	3	157-159	few	6/29/2007	UV Light
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 2					Pinned	1	160	few	6/29/2007	UV Light
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 3					Pinned	1	161	1	6/29/2007	UV Light
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 4					Pinned	1	162	1	6/29/2007	UV Light
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 5					Pinned	1	163	1	6/29/2007	UV Light
YEW	Restored Wetland 1	Arthropoda	Insecta	Homoptera 1					Pinned	1	164	1	6/29/2007	UV Light
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera	Staphylinidae 2				None			abundant	6/29/2007	UV Light
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera 1					Envelope	medium		medium	6/29/2007	UV Light
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 6					None			medium	6/29/2007	UV Light
YEW	Restored Wetland 1	Arthropoda	Insecta	Homoptera 2					None			few	6/29/2007	UV Light
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 7					None			few	6/29/2007	UV Light
YEW	Restored Wetland 1	Arthropoda	Insecta	Hemiptera	Aphidae				None			few	6/29/2007	UV Light
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera	Staphylinidae 3				None			few	6/29/2007	UV Light
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera 2					Envelope	1 or 2		1 or 2	6/29/2007	UV Light
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera 3					Envelope	1 or 2		1 or 2	6/29/2007	UV Light
YEW	Restored Wetland 1	Arthropoda	Insecta	Odonata 1					ETOH	2	349	1	7/4/2007	Spot
YEW	Restored Wetland 1	Arthropoda	Arachnida 1						ETOH	1	350	1	7/4/2007	Spot
YEW	Restored Wetland 1	Arthropoda	Arachnida 2						ETOH	1	351	1	7/4/2007	Spot
YEW	Restored Wetland 1	Arthropoda	Arachnida 3						ETOH	1	352	1	7/4/2007	Spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera 1					ETOH	1	353	1	7/4/2007	Spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera 4					ETOH	1	354	1	7/4/2007	Spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Ephemeroptera					ETOH	1	355	1	7/4/2007	Spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Hemiptera	Corixidae				ETOH	1	356	1	7/4/2007	Spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Hemiptera	Gerridae				ETOH	1	357	1	7/4/2007	Spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera	Chironomidae				ETOH	1	358	1	7/4/2007	Spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Orthoptera 1					Pinned	1	389	1	7/4/2007	Spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Orthoptera 2					Pinned	1	390	1	7/4/2007	Spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera	Asilidae				Pinned	1	391	1	7/4/2007	Spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera	Cicindelidae				Pinned	1	392	1	7/4/2007	Spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera	Apidae				Pinned	2	393, 394	2	7/4/2007	Spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 4					Pinned	1	395	1	7/4/2007	Spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 5					Pinned	2	396, 397	2	7/4/2007	Spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Odonata 2					Pinned	1	398	1	7/4/2007	Spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera 2					None			185	7/4/2007	Malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Homoptera					None			1	7/4/2007	Malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Odonata 3					None			2	7/4/2007	Malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera 3					None			13	7/4/2007	Malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 6					None			1	7/4/2007	Malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera	Chironomidae				ETOH	4	325	4	7/4/2007	spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 1 (larvae)					ETOH	4	326	4	7/4/2007	spot
YEW	Restored Wetland 2	Arthropoda	Arachnida 1						ETOH	1	327	1	7/4/2007	spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Hemiptera	Corixidae 1				ETOH	2	328	2	7/4/2007	spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Hemiptera	Corixidae 2				ETOH	1	329	1	7/4/2007	spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 2					None			13	7/4/2007	spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Hymenoptera 1					Pinned	3	624, 625, 626	3	7/4/2007	spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Hymenoptera 2					Pinned	2	627, 628	2	7/4/2007	spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Homoptera					None			1	7/4/2007	spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Lepidoptera	Lycaenidae	Brephidium	exile		None			2	7/4/2007	spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Coleoptera	Cicindelidae				Pinned	1	629	1	7/4/2007	spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Odonata 1					Envelope	1	630	1	7/4/2007	spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 3					None			315	7/4/2007	Malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 4					None			17	7/4/2007	Malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 5					Pinned	1	454	4	7/4/2007	Malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 6					None			1	7/4/2007	Malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Lepidoptera 1	Hesperiidae	Lerodea	eufala		None			9	7/4/2007	Malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Lepidoptera	Lycaenidae	Brephidium	exile		None			1	7/4/2007	Malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Hymenoptera 3					Pinned	1	462	4	7/4/2007	Malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Hymenoptera	Formicidae 1				ETOH	12	315	12	7/4/2007	Spot
YEW	Restored Wetland 4	Arthropoda	Insecta	Hymenoptera	Formicidae 2				ETOH	1 pinned; 4	1836 pin; 316	4	7/4/2007	Spot
YEW	Restored Wetland 4	Arthropoda	Insecta	Hymenoptera	Formicidae 3				ETOH	4	317	4	7/4/2007	Spot
YEW	Restored Wetland 4	Arthropoda	Insecta	Hymenoptera	Formicidae 4				ETOH	1	318	1	7/4/2007	Spot
YEW	Restored Wetland 4	Arthropoda	Arachnida 1						ETOH	1	319	1	7/4/2007	Spot
YEW	Restored Wetland 4	Arthropoda	Arachnida 2						ETOH	1	320	1	7/4/2007	Spot
YEW	Restored Wetland 4	Arthropoda	Insecta	Coleoptera 1					ETOH	1	321	1	7/4/2007	Spot
YEW	Restored Wetland 4	Arthropoda	Insecta	Coleoptera 2					ETOH	1	322	1	7/4/2007	Spot
YEW	Restored Wetland 4	Arthropoda	Crustacea	Amphipoda					ETOH	1	323	1	7/4/2007	Spot
YEW	Restored Wetland 4	Arthropoda	Insecta	Hemiptera	Corixidae				ETOH	2	324	2	7/4/2007	Spot
YEW	Restored Wetland 4	Arthropoda	Insecta	Lepidoptera	Lycaenidae	Brephidium	exile		Pinned	1	362	2	7/4/2007	Spot
YEW	Restored Wetland 4	Arthropoda	Insecta	Coleoptera 3					Pinned	1	361	1	7/4/2007	Spot
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera 1					None			212	7/4/2007	Malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera 2					None			2	7/4/2007	Malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Hymenoptera 1					None			1	7/4/2007	Malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Hymenoptera 2					None			1	7/4/2007	Malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera	Serfidae				Pinned	1	435	1	7/4/2007	Malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Homoptera					Pinned	1	437	1	7/4/2007	Malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera 3					Pinned	1		4	7/4/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Hymenoptera	Apidae				Pinned	1	451	1	7/10/2007	Spot
YEW	Control Wetland 2	Arthropoda	Insecta	Odonata 1					Pinned	1	452	1	7/10/2007	Spot

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YEW	Control Wetland 2	Arthropoda	Insecta	Odonata 2					Pinned	1	453	1	7/10/2007	Spot
YEW	Control Wetland 2	Arthropoda	Insecta	Coleoptera	Coccinellidae				Pinned	1	486	1	7/10/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 1					Pinned	1	487	5	7/10/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 2					Pinned	1	488	11	7/10/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 3					Pinned	1	489	9	7/10/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 4					None			5	7/10/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 5					None			2	7/10/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 6					None			medium	7/10/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera	Serfidae				Pinned	1	853	2	7/10/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 7					Pinned	1	854	2	7/10/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Odonata 3					Pinned	1	855	1	7/10/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera	Chironomidae 1				None			few	7/10/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera	Chironomidae 2				None			few	7/10/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Homoptera					None			few	7/10/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 8					None			few	7/10/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 9					None			few	7/10/2007	Malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Neuroptera	Myrmeleontidae				Pinned	3	240-242	3	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera	Scarabidae 1				Pinned	1	243	1	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera	Scarabidae 2				Pinned	3	244-246	4	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera	Scarabidae 3				Pinned	1	247	1	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera	Scarabidae 4				Pinned	1	248	1	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera	Scarabidae 5				Pinned	2	249-250	2	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera	Eloteridae				Pinned	1	251	1	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 1					Pinned	2	252-253	medium	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 2					Pinned	2	254-255	few	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 3					Pinned	1	256	1	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 4					Pinned	3	257-259	few	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 5					Pinned	2	260-261	few	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 6					Pinned	1	262	1	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 7					Pinned	3	263-265	few	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Mantidae					Pinned	2	266-267	2	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Hymenoptera 1					Pinned	3	268-270	few	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Homoptera 1					Pinned	2	271-272	few	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Homoptera 2					Pinned	1	273	1	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Trichoptera 1					Pinned and ETOH	1 and 2	274 and 277	few	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Neuroptera					Pinned	1	275	2	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 1					Pinned	1	276	1	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Trichoptera 2					Pinned	3	277	few	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 1					Pinned	1	278	1	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 2					Pinned	1	279	2	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 3					Pinned	1	280	5	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 4					Pinned	1	281	medium	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 5					Pinned	1	282	few	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 6					None			medium	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Homoptera 3					ETOH	abundant	283	super abundant	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera	Staphylinidae 1				ETOH	abundant	284	abundant	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera	Staphylinidae 2				ETOH	few	284	few	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 8					ETOH	abundant	285	abundant	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 9					ETOH	medium	286	medium	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 10					ETOH	medium	287	medium	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 2					ETOH	medium	288	medium	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 3					ETOH	medium	288	medium	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Hymenoptera 2					ETOH	few	289	few	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Hymenoptera 3					ETOH	few	289	few	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Arachnida 1						ETOH	1	742	1	7/10/2007	Spot
YEW	Control Wetland 3	Arthropoda	Arachnida 2						ETOH	2	742	2	7/10/2007	Spot
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 11					ETOH	2	743	2	7/10/2007	Spot
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 3					None			4	7/10/2007	Spot
YEW	Control Wetland 3	Arthropoda	Insecta	Homoptera 4					None			1	7/10/2007	Spot
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 4					None			4	7/10/2007	Spot
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 5					Pinned	1	744	1	7/10/2007	Spot
YEW	Control Wetland 3	Arthropoda	Insecta	Hymenoptera 4					None			1	7/10/2007	Spot
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 12					Pinned	1	745	1	7/10/2007	Spot
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 13					Pinned	2	746-747	2	7/10/2007	Spot
YEW	Control Wetland 3	Arthropoda	Insecta	Odonata					Pinned	1	757	1	7/10/2007	Spot
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 14					Pinned	1	758	1	7/10/2007	Spot
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 6					Pinned	1	856	3	7/10/2007	Malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Hymenoptera 5					Pinned	1	857	1	7/10/2007	Malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Hymenoptera 6					Pinned	1	858	1	7/10/2007	Malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Hymenoptera 7					Pinned	1	859	1	7/10/2007	Malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 7					Pinned	1	860	2	7/10/2007	Malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 8					None			abundant	7/10/2007	Malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Hymenoptera	Ichneumonidae				None			2	7/10/2007	Malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Hymenoptera 8					None			2	7/10/2007	Malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 9					None			few	7/10/2007	Malaise
YEW	Control Wetland 4	Arthropoda	Insecta	Hymenoptera	Apidae				Pinned	1	775	1	7/10/2007	Spot
YEW	Control Wetland 4	Arthropoda	Insecta	Diptera 1					Pinned	1	776	1	7/10/2007	Spot
YEW	Control Wetland 4	Arthropoda	Insecta	Odonata 1					Pinned	2	777-778	2	7/10/2007	Spot
YEW	Control Wetland 4	Arthropoda	Crustacea	Amphipoda					ETOH	6	748	6	7/10/2007	Spot
YEW	Control Wetland 4	Arthropoda	Gastropoda 1						ETOH	super abundant	749	super abundant	7/10/2007	Spot
YEW	Control Wetland 4	Arthropoda	Arachnidae						ETOH	1	750	1	7/10/2007	Spot

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YEW	Control Wetland 4	Arthropoda	Gastropoda 2						ETOH	5	751	5	7/10/2007	Spot
YEW	Control Wetland 4	Arthropoda	Insecta	Hemiptera 1					ETOH	2	752	2	7/10/2007	Spot
YEW	Control Wetland 4	Arthropoda	Insecta	Hemiptera	Gerridae				ETOH	1	753	1	7/10/2007	Spot
YEW	Control Wetland 4	Arthropoda	Insecta	Hemiptera 3					ETOH	3	754	3	7/10/2007	Spot
YEW	Control Wetland 4	Arthropoda	Insecta	Ephemeroptera					ETOH	2	755	2	7/10/2007	Spot
YEW	Control Wetland 4	Arthropoda	Insecta	Odonata 2					ETOH	2	756	2	7/10/2007	Spot
YEW	Control Wetland 4	Arthropoda	Insecta	Diptera 2					Pinned	1	479	5	7/10/2007	Malaise
YEW	Control Wetland 4	Arthropoda	Insecta	Diptera 3					Pinned	1	480	3	7/10/2007	Malaise
YEW	Control Wetland 4	Arthropoda	Insecta	Diptera 4					Pinned	1	481	2	7/10/2007	Malaise
YEW	Control Wetland 4	Arthropoda	Insecta	Hymenoptera 1					Pinned	1	482	1	7/10/2007	Malaise
YEW	Control Wetland 4	Arthropoda	Insecta	Hymenoptera 2					Pinned	1	483	2	7/10/2007	Malaise
YEW	Control Wetland 4	Arthropoda	Insecta	Diptera 5					Pinned	1	484	5	7/10/2007	Malaise
YEW	Control Wetland 4	Arthropoda	Insecta	Diptera 6					Pinned	1	485	4	7/10/2007	Malaise
YEW	Control Wetland 4	Arthropoda	Insecta	Diptera 7					None			abundant	7/10/2007	Malaise
YEW	Control Wetland 4	Arthropoda	Insecta	Diptera 8					None			2	7/10/2007	Malaise
YEW	Control Wetland 4	Arthropoda	Insecta	Diptera	Chironomidae				None			1	7/10/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 1					ETOH	1	310	1	7/2/2007	Spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera	Stratiomyidae				ETOH	1	311	1	7/2/2007	Spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Odonata 1					ETOH	1	312	1	7/2/2007	Spot
BWNWR	Reference Wetland 2	Arthropoda	Crustacea	Amphipoda					ETOH	1	313	1	7/2/2007	Spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Ephemeroptera					ETOH	1	314	1	7/2/2007	Spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Odonata 2					Pinned and Envelope	1 and 1	702, 703	2	7/2/2007	Spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Odonata 3					Pinned	1	704	1	7/2/2007	Spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 2					Pinned	1	705	1	7/2/2007	Spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Hymenoptera	Apidae				Pinned	2	706, 707	8	7/2/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Hymenoptera 1					Pinned	2	708- 709	2	7/2/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Hymenoptera 2					Pinned	2	710- 711	2	7/2/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Hymenoptera 3					Pinned	1	712	1	7/2/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 2					Pinned	2	713- 714	8	7/2/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 3					Pinned	3	715- 716	5	7/2/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Hymenoptera 4					Pinned	1	717	1	7/2/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 4					Pinned	1	719	2	7/2/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 5					Pinned	1	720	1	7/2/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Odonata 4					Pinned	1	721	1	7/2/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera	Chironomidae				None			few	7/2/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 6					None			few	7/2/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 7					None			few	7/2/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 1					ETOH	1	300	1	7/2/2007	UV Light
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera	Chironomidae				ETOH	19	301	super abundant	7/2/2007	UV Light
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Coleoptera	Staphylinidae 1				ETOH	2	302	2	7/2/2007	UV Light
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 2					ETOH	3	303	3	7/2/2007	UV Light
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata 1					Pinned	1	402	1	7/2/2007	Spot
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata 2					Pinned	2	403- 404	2	7/2/2007	Spot
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata 3					Pinned	1	405	1	7/2/2007	Spot
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 3					Pinned	2	731- 732	6	7/2/2007	UV Light
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Coleoptera 1					Pinned	3	733- 735	3	7/2/2007	UV Light
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Coleoptera 2					Pinned	1	736	1	7/2/2007	UV Light
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Coleoptera	Coccinellidae				Pinned	1	737	1	7/2/2007	UV Light
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Coleoptera 3					Pinned	1	738	3	7/2/2007	UV Light
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Coleoptera	Staphylinidae 2				Pinned	1	739	1	7/2/2007	UV Light
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata 4					Pinned	1	740	1	7/2/2007	UV Light
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Lepidoptera					Envelope	2		2	7/2/2007	UV Light
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Trichoptera					ETOH	2	741	2	7/2/2007	UV Light
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Homoptera					None			2	7/2/2007	UV Light

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BWNWR	Reference Wetland 3	Arthropoda	Insecta	Hymenoptera 1					Pinned	1	779	2	7/2/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 4					Pinned	2	780- 781	medium	7/2/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 5					Pinned	1	782	1	7/2/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 6					Pinned	2	783- 784	20	7/2/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 7					Pinned	1	785	9	7/2/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 8					Pinned	1	786	1	7/2/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 9					Pinned	1	787	1	7/2/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 10					Pinned	1	788	1	7/2/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 11					Pinned	1	789	1	7/2/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata 5					Pinned	1	790	1	7/2/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata 6					Pinned	1	791	1	7/2/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 12					None			2	7/2/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 13					None			3	7/2/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 14					None			1	7/2/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Odonata 1					ETOH	4	304	4	7/2/2007	Spot
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Hemiptera	Gerridae 1				ETOH	3	305	3	7/2/2007	Spot
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Odonata 2					ETOH	1	306	1	7/2/2007	Spot
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Odonata 3					ETOH	1	307	1	7/2/2007	Spot
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 1					ETOH	2	308	2	7/2/2007	Spot
BWNWR	Reference Wetland 5	Arthropoda	Mollusca	Amphipoda 1					ETOH	4	309	4	7/2/2007	Spot
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Odonata 4					ETOH	1	337	1	7/2/2007	Spot
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Odonata 5					ETOH	1	338	1	7/2/2007	Spot
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Odonata 6					ETOH	3	339	3	7/2/2007	Spot
BWNWR	Reference Wetland 5	Arthropoda	Mollusca	Amphipoda 2					ETOH	3	340	3	7/2/2007	Spot
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Hemiptera	Gerridae 2				ETOH	2	341	2	7/2/2007	Spot
BWNWR	Reference Wetland 5	Arthropoda	Mollusca	Amphipoda 3					ETOH	1	342	1	7/2/2007	Spot
BWNWR	Reference Wetland 5	Annelida							ETOH	2	343	2	7/2/2007	Spot
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Ephemeroptera					ETOH	3	344	3	7/2/2007	Spot
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Hemiptera	Gerridae 3				ETOH	1	345	1	7/2/2007	Spot
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera	Culcidae				ETOH	1	346	1	7/2/2007	Spot
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Odonata 7					Pinned	2	406- 407	2	7/2/2007	Spot
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Hymenoptera 1					Pinned	1	408	1	7/2/2007	Spot
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 2					Pinned	1	722	1	7/2/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 3					Pinned	1	723	3	7/2/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 4					Pinned	1	724	1	7/2/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 5					Pinned	1	725- 726	3	7/2/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 6					Pinned	2	727	1	7/2/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 7					Pinned	1	728	5	7/2/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 8					Pinned	1	729	1	7/2/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Odonata 7					Pinned	1	730	1	7/2/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Coleoptera					None			2	7/2/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 8					None			4	7/2/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 9					None			few	7/2/2007	Malaise
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Coleoptera 1					ETOH	1	371	1	7/5/2007	Spot
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Coleoptera	Curculionidae				ETOH	11	372	11	7/5/2007	Spot
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Hymenoptera	Formicidae				ETOH	1	373	1	7/5/2007	Spot
YEW	Restored Riparian Imm 1	Arthropoda	Arachnida 1						ETOH	1	374	1	7/5/2007	Spot

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Riparian Imm 1	Arthropoda	Arachnida 2						ETOH	2	375	2	7/5/2007	Spot
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Homoptera 1					ETOH	1	376	1	7/5/2007	Spot
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Homoptera 2					ETOH	1	377	1	7/5/2007	Spot
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Homoptera 3					ETOH	1	378	1	7/5/2007	Spot
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Diptera 1					ETOH	1	379	1	7/5/2007	Spot
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Homoptera 4					ETOH	1	380	1	7/5/2007	Spot
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Coleoptera 2					ETOH	2	381	2	7/5/2007	Spot
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Diptera 2					Pinned	1	382	1	7/5/2007	Spot
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Diptera 3					None			super abundant	7/5/2007	Malaise
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Diptera	Asilidae				Pinned	1	792	1	7/5/2007	Malaise
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Hymenoptera 1					Pinned	1	793	1	7/5/2007	Malaise
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Diptera 4					Pinned	1	794	1	7/5/2007	Malaise
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Hymenoptera 2					Pinned	1	795	2	7/5/2007	Malaise
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Diptera 5					Pinned	1	796	5	7/5/2007	Malaise
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Hymenoptera 3					None			1	7/5/2007	Malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera 5					None			1	7/5/2007	Malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera	Formicidae 1				ETOH	1	381	1	7/5/2007	Spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera	Formicidae 2				ETOH	5	387	5	7/5/2007	Spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Homoptera 1					None			1	7/5/2007	Spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera 1					Pinned	1	399	1	7/5/2007	Spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 1					Pinned	3	409- 411	3	7/5/2007	Spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 2					Pinned	2	412- 413	2	7/5/2007	Spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 3					Pinned	2	414- 415	2	7/5/2007	Spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 4					Pinned	2	416- 417	2	7/5/2007	Spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 5					Pinned	1	418	1	7/5/2007	Spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 6					Pinned	1	419	1	7/5/2007	Spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 7					Pinned	2	420- 421	2	7/5/2007	Spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Homoptera 2					None			1	7/5/2007	Spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Lepidoptera 1	Hesperiidae	Lerodea	eufala		Pinned	2	422- 423	2	7/5/2007	Spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Lepidoptera	Lycanidae	Brephidium	exile		None			1	7/5/2007	Spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 8					Pinned	2	797- 798	4	7/5/2007	Malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera 2					Pinned	1	799	1	7/5/2007	Malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera 3					Pinned	1	800	10	7/5/2007	Malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 9					Pinned	1	801	1	7/5/2007	Malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 10					Pinned	1	802	1	7/5/2007	Malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera	Asilidae				Pinned	1	803	1	7/5/2007	Malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera 4					Pinned	1	804	1	7/5/2007	Malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Homoptera 3					None			1	7/5/2007	Malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera	Chironomidae				None			2	7/5/2007	Malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera 5					None			super abundant	7/5/2007	Malaise
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Odonata					Pinned	1	109	1	6/29/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera	Scarabidae 1				Pinned	2	110, 111	2	6/29/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera	Scarabidae 2				Pinned	4	112- 115	6	6/29/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera	Scarabidae 3				Pinned	1	116	1	6/29/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera	Eloteridae				Pinned	1	117	1	6/29/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Neuroptera	Myrmeleontidae				Pinned	1	118	1	6/29/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 1					Pinned	6	119- 124	medium	6/29/2007	UV Light

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YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 1					Pinned	5	125- 129	few	6/29/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 2					Pinned	3	130- 132	few	6/29/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 3					Pinned	6	133- 137, 151	few	6/29/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 4					Pinned	3	138- 140	few	6/29/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 5					Pinned	2	141- 142	2	6/29/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 6					Pinned	1	143	1	6/29/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 7					Pinned	2	144- 145	2	6/29/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 8					Pinned	2	146- 147	few	6/29/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Homoptera 1					Pinned	3	148- 150	few	6/29/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 2					Pinned	1	152	few	6/29/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 9					Pinned	1	153	1	6/29/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Homoptera 2					Pinned	1	154	1	6/29/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera	Staphylinidae				ETOH	medium	155	medium	6/29/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 1					Envelope	1	422-423	few	6/29/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 2					Envelope	1		few	6/29/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 10					None			medium	6/29/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 3					None			medium	6/29/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 11					None			few	6/29/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Diptera	Chironomidae				None			medium	6/29/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Diptera 1					None			medium	6/29/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hemiptera	Aphidae				None			few	6/29/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Homoptera 3					None			few	6/29/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Neuroptera					None			1	6/29/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 3					Pinned	1	156	2	6/29/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 4					Pinned	1	157	3	6/29/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera	Noctuidae	Spodoptera	exigua		None			few	6/29/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 5					Envelope	few		few	6/29/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 6					Envelope	few		1 to 2	6/29/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 7					Envelope	few		1 to 2	6/29/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 8					Envelope	few		1 to 2	6/29/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera	Apidae				Pinned	1	433	1	7/5/2007	spot
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 4					Pinned	1	434	1	7/5/2007	spot
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera					Pinned	1	382	1	7/5/2007	spot
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Diptera 2					None			super abundant	7/5/2007	Malaise
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Diptera 3					None			1	7/5/2007	Malaise
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Diptera 4					None			1	7/5/2007	Malaise
YWW	Rip. 3	Arthropoda	Insecta	Coleoptera	Scarabidae 1				Pinned	3	206- 208	4	6/28/2007	UV Light
YWW	Rip. 3	Arthropoda	Insecta	Coleoptera	Scarabidae 2				Pinned	2	209- 210	3	6/28/2007	UV Light
YWW	Rip. 3	Arthropoda	Insecta	Coleoptera	Scarabidae 3				Pinned	2	211- 212	2	6/28/2007	UV Light
YWW	Rip. 3	Arthropoda	Insecta	Coleoptera	Scarabidae 4				Pinned	1	213	1	6/28/2007	UV Light
YWW	Rip. 3	Arthropoda	Insecta	Coleoptera	Coccinellidae 1				Pinned	1	214	1	6/28/2007	UV Light
YWW	Rip. 3	Arthropoda	Insecta	Coleoptera	Coccinellidae 2				Pinned	1	215	1	6/28/2007	UV Light
YWW	Rip. 3	Arthropoda	Insecta	Coleoptera 1					Pinned	2	216- 217	few	6/28/2007	UV Light
YWW	Rip. 3	Arthropoda	Insecta	Coleoptera 2					Pinned	1	218	1	6/28/2007	UV Light
YWW	Rip. 3	Arthropoda	Insecta	Coleoptera 3					Pinned	1	219	1	6/28/2007	UV Light
YWW	Rip. 3	Arthropoda	Insecta	Coleoptera 4					Pinned	2	220- 221	few	6/28/2007	UV Light
YWW	Rip. 3	Arthropoda	Insecta	Hymenoptera 1					Pinned	2	222- 223	4	6/28/2007	UV Light
YWW	Rip. 3	Arthropoda	Insecta	Hymenoptera 2					Pinned	1	224	1	6/28/2007	UV Light
YWW	Rip. 3	Arthropoda	Insecta	Hymenoptera 3					Pinned	1	225	1	6/28/2007	UV Light
YWW	Rip. 3	Arthropoda	Insecta	Hymenoptera 4					Pinned	1	226	1	6/28/2007	UV Light
YWW	Rip. 3	Arthropoda	Insecta	Hymenoptera 5					Pinned	1	227	1	6/28/2007	UV Light
YWW	Rip. 3	Arthropoda	Insecta	Diptera 1					Pinned	1	228	1	6/28/2007	UV Light
YWW	Rip. 3	Arthropoda	Insecta	Diptera 2					Pinned	1	229	1	6/28/2007	UV Light
YWW	Rip. 3	Arthropoda	Insecta	Diptera 3					Pinned	1	230	1	6/28/2007	UV Light
YWW	Rip. 3	Arthropoda	Insecta	Neuroptera					Pinned	1	231	1	6/28/2007	UV Light
YWW	Rip. 3	Arthropoda	Insecta	Neuroptera	Myrmeleontidae				Pinned	1	232	1	6/28/2007	UV Light

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YWW	Rip. 3	Arthropoda	Insecta	Trichoptera					Pinned	2	233- 234	4	6/28/2007	UV Light
YWW	Rip. 3	Arthropoda	Insecta	Hymenoptera 6					Pinned	2	235- 236	few	6/28/2007	UV Light
YWW	Rip. 3	Arthropoda	Insecta	Hymenoptera	Ichneumonidae				Pinned	1	237	1	6/28/2007	UV Light
YWW	Rip. 3	Arthropoda	Insecta	Lepidoptera 1					Pinned	1	238	3	6/28/2007	UV Light
YWW	Rip. 3	Arthropoda	Insecta	Lepidoptera 2					Pinned	1	239	3	6/28/2007	UV Light
YWW	Rip. 3	Arthropoda	Insecta	Lepidoptera 3					Envelope	3		3	6/28/2007	UV Light
YWW	Rip. 3	Arthropoda	Insecta	Lepidoptera 4					Envelope	6		6	6/28/2007	UV Light
YWW	Rip. 3	Arthropoda	Insecta	Lepidoptera 5					Envelope	9		9	6/28/2007	UV Light
YWW	Rip. 3	Arthropoda	Insecta	Coleoptera	Staphylinidae				None			abundant	6/28/2007	UV Light
YWW	Rip. 3	Arthropoda	Insecta	Hymenoptera	Formicidae 1				ETOH	1	828	1	7/6/2007	Malaise
YWW	Rip. 3	Arthropoda	Insecta	Hymenoptera	Formicidae 2				ETOH	2	828	2	7/6/2007	Malaise
YWW	Rip. 3	Arthropoda	Insecta	Homoptera 1					None			abundant	6/28/2007	UV Light
YWW	Rip. 3	Arthropoda	Insecta	Hymenoptera 7					None			medium	6/28/2007	UV Light
YWW	Rip. 3	Arthropoda	Insecta	Coleoptera 5					None			abundant	6/28/2007	UV Light
YWW	Rip. 3	Arthropoda	Insecta	Diptera 6					None			abundant	6/28/2007	UV Light
YWW	Rip. 3	Arthropoda	Insecta	Lepidoptera 6					Envelope	medium		medium	6/28/2007	UV Light
YWW	Rip. 3	Arthropoda	Insecta	Hymenoptera	Formicidae 3				ETOH	3	547	few	7/6/2007	Spot
YWW	Rip. 3	Arthropoda	Insecta	Hymenoptera	Formicidae 4				ETOH	5	548	few	7/6/2007	Spot
YWW	Rip. 3	Arthropoda	Insecta	Hymenoptera	Formicidae 5				ETOH	2	549	2	7/6/2007	Spot
YWW	Rip. 3	Arthropoda	Insecta	Homoptera 2					ETOH	2	550	2	7/6/2007	Spot
YWW	Rip. 3	Arthropoda	Insecta	Homoptera 3					None			1	7/6/2007	Spot
YWW	Rip. 3	Arthropoda	Insecta	Homoptera 4					None			1	7/6/2007	Spot
YWW	Rip. 3	Arthropoda	Insecta	Homoptera 5					None			1	7/6/2007	Spot
YWW	Rip. 3	Arthropoda	Insecta	Coleoptera 6					ETOH	3	551	few	7/6/2007	Spot
YWW	Rip. 3	Arthropoda	Insecta	Lepidoptera 6					ETOH	1	552	1	7/6/2007	Spot
YWW	Rip. 3	Arthropoda	Insecta	Diptera 7					ETOH	3	553	few	7/6/2007	Spot
YWW	Rip. 3	Arthropoda	Insecta	Diptera 8					ETOH	1		1	7/6/2007	Spot
YWW	Rip. 3	Arthropoda	Arachinidae 1						ETOH	1	554	1	7/6/2007	Spot
YWW	Rip. 3	Arthropoda	Arachinidae 2						ETOH	2	554	2	7/6/2007	Spot
YWW	Rip. 3	Arthropoda	Insecta	Coleoptera 7	Cerambycidae				Pinned	1	555	1	7/6/2007	Spot
YWW	Rip. 3	Arthropoda	Insecta	Diptera 7					Pinned	1	556	1	7/6/2007	Spot
YWW	Rip. 3	Arthropoda	Insecta	Lepidoptera	Hesperiidae	Lerodea	eufala		Pinned	1	557	1	7/6/2007	Spot
YWW	Rip. 3	Arthropoda	Insecta	Diptera 9					Pinned	1	805	5	7/6/2007	Malaise
YWW	Rip. 3	Arthropoda	Insecta	Diptera 10					Pinned	1	806	1	7/6/2007	Malaise
YWW	Rip. 3	Arthropoda	Insecta	Diptera 11					Pinned	2	807- 808	6	7/6/2007	Malaise
YWW	Rip. 3	Arthropoda	Insecta	Diptera 12					Pinned	1	809	1	7/6/2007	Malaise
YWW	Rip. 3	Arthropoda	Insecta	Diptera 13					Pinned	1	810	1	7/6/2007	Malaise
YWW	Rip. 3	Arthropoda	Insecta	Diptera 14					Pinned	1	811	2	7/6/2007	Malaise
YWW	Rip. 3	Arthropoda	Insecta	Diptera 15					Pinned	1	812	1	7/6/2007	Malaise
YWW	Rip. 3	Arthropoda	Insecta	Diptera 16					Pinned	1	813	1	7/6/2007	Malaise
YWW	Rip. 3	Arthropoda	Insecta	Hymenoptera 7					Pinned	1	814	1	7/6/2007	Malaise
YWW	Rip. 3	Arthropoda	Insecta	Diptera	Asillidae				Pinned	1	815	1	7/6/2007	Malaise
YWW	Rip. 3	Arthropoda	Insecta	Hymenoptera 8					Pinned	2	816- 817	2	7/6/2007	Malaise
YWW	Rip. 3	Arthropoda	Insecta	Hymenoptera 9					Pinned	1	818	1	7/6/2007	Malaise
YWW	Rip. 3	Arthropoda	Insecta	Hymenoptera 10					Pinned	1	819	1	7/6/2007	Malaise
YWW	Rip. 3	Arthropoda	Insecta	Hymenoptera 11					Pinned	1	820	1	7/6/2007	Malaise
YWW	Rip. 3	Arthropoda	Insecta	Hymenoptera 12					Pinned	1	821	1	7/6/2007	Malaise
YWW	Rip. 3	Arthropoda	Insecta	Hymenoptera 13					Pinned	1	822	1	7/6/2007	Malaise
YWW	Rip. 3	Arthropoda	Insecta	Hymenoptera 14					Pinned	1	823	3	7/6/2007	Malaise
YWW	Rip. 3	Arthropoda	Insecta	Hymenoptera 15					None			1	7/6/2007	Malaise
YWW	Rip. 3	Arthropoda	Insecta	Hymenoptera 16					Pinned	1	824	3	7/6/2007	Malaise
YWW	Rip. 3	Arthropoda	Insecta	Hymenoptera 17					Pinned	1	825	1	7/6/2007	Malaise
YWW	Rip. 3	Arthropoda	Insecta	Hymenoptera 18					Pinned	1	826	1	7/6/2007	Malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 17					None			super abundant	7/6/2007	Malaise
YWW	Rip. 3	Arthropoda	Insecta	Lepidoptera 7	Hesperiidae	Lerodea	eufala		Pinned	1	827	3	7/6/2007	Malaise
YWW	Rip. 5	Arthropoda	Insecta	Odonata 1					Pinned	1	439	1	7/6/2007	Spot
YWW	Rip. 5	Arthropoda	Insecta	Hymenoptera 1					Pinned	1	441	1	7/6/2007	Spot
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Lepidoptera 1	Hesperiidae	Copaeades	aurantiacus		Pinned	1	442	1	7/6/2007	Spot
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Lepidoptera 2	Lycaenidae	Hemiargus	cernanus	gyus	Pinned	1	443	1	7/6/2007	Spot
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera 1					None			14	7/6/2007	Malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera 2					None			15	7/6/2007	Malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera 3					None			14	7/6/2007	Malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 4					None			16	7/6/2007	Malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Hymenoptera 2					None			8	7/6/2007	Malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Odonata 2					Pinned	1	471	5	7/6/2007	Malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Lepidoptera 3					Pinned	1		5	7/6/2007	Malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Odonata 3					Pinned	1	469	5	7/6/2007	Malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Odonata 4					Pinned	1	470	5	7/6/2007	Malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Hymenoptera 3					None			1	7/6/2007	Malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Lepidoptera	Hesperiidae	Lerodea	eufala		None			5	7/6/2007	Malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera 4					None			166	7/6/2007	Malaise

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera 1					Pinned	3	759- 761	4	7/6/2007	Spot
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera	Asilidae 1				Pinned	1	762	1	7/6/2007	Spot
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera 2					Pinned	1	763	1	7/6/2007	Spot
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera 3					Pinned	1	764	1	7/6/2007	Spot
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Lepidoptera	Hesperiidae	Lerodea	eufala		Pinned	1	767	1	7/6/2007	Spot
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Lepidoptera	Lycaenidae	Hemiargus	ceranus	gyus	Pinned	1	768	1	7/6/2007	Spot
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera	Asilidae 2				Pinned	1	770	1	7/6/2007	Malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 1					Pinned	1	771	1	7/6/2007	Malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 2					Pinned	2	772- 773	3	7/6/2007	Malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 3					Pinned	1	774	5	7/6/2007	Malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 4					Pinned	1	832	1	7/6/2007	Malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 5					Pinned	1	835	3	7/6/2007	Malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 6					Pinned	1	836	2	7/6/2007	Malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 7					Pinned	1	834	1	7/6/2007	Malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera 4					Pinned	1	833	1	7/6/2007	Malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera 5					Pinned	1	837	1	7/6/2007	Malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera 6					Pinned	1	838	1	7/6/2007	Malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 7					None			super abundant	7/6/2007	Malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Lepidoptera	Hesperiidae 2				Pinned	1	839	2	7/6/2007	Malaise
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera	Scarabidae 1				Pinned	1	558	2	7/3/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera	Scarabidae 2				Pinned	2	559- 560	2	7/3/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera	Scarabidae 3				Pinned	3	561- 563	few	7/3/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Orthoptera					Pinned	1	564	1	7/3/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 1					Pinned	3	565- 567	few	7/3/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera	Scarabidae 4				Pinned	1	568	few	7/3/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 2					Pinned	1	569	1	7/3/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 3					Pinned	4	570- 573	few	7/3/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 4					Pinned	3	574- 576	few	7/3/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera	Eloteridae				Pinned	1	577	1	7/3/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera	Coccinellidae				Pinned	1	578	1	7/3/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 5					Pinned	3	579- 581	few	7/3/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 6					Pinned	1	582	1	7/3/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 7					Pinned	2	583	few	7/3/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 8					Pinned	1	585	1	7/3/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 9					Pinned	1	586	few	7/3/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 1					Pinned	2	587- 588	few	7/3/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 2					Pinned	3	589- 591	few	7/3/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 3					Pinned	1	592	1	7/3/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Hemiptera	Reduviidae				Pinned	1	593	1	7/3/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Hemiptera					Pinned	1	594	1	7/3/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Neuroptera					Pinned	1	595	3	7/3/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 4					Pinned	3	596- 598	few	7/3/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Homoptera 1					Pinned	1	599	1	7/3/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Homoptera 2					Pinned	1	600	1	7/3/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 5					Pinned	1	601	1	7/3/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 1					None			1	7/3/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 2					Pinned	1	602	few	7/3/2007	UV Light

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YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 3					Envelope			few	7/3/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 4					Envelope			few	7/3/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Homoptera	Aphidae				None			few	7/3/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera	Staphylinidae				None			abundant	7/3/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 10					None			medium	7/3/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 6					None			few	7/3/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Homoptera 3					None			medium	7/3/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Diptera 1					None			few	7/3/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera	Formicidae 1				ETOH	3	603	3	7/9/2007	Spot
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera	Formicidae 2				ETOH	1	603	1	7/9/2007	Spot
YEW	Control Riparian 2	Arthropoda	Arachnida						ETOH	1	642	1	7/9/2007	Spot
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 11					Pinned	1	644	1	7/9/2007	Spot
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 7					Pinned	1	829	1	7/9/2007	Malaise
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 8					Pinned	1	830	1	7/9/2007	Malaise
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera	Formicidae 3				None			1	7/9/2007	Malaise
YEW	Control Riparian 2	Arthropoda	Insecta	Diptera 2					None			abundant	7/9/2007	Malaise
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera	Hesperiidae	Lerodea	eufala		Pinned	1	831	1	7/9/2007	Malaise
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera	Apidae				Pinned	1	840	1	7/9/2007	Spot
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 9					Pinned	1	841	1	7/9/2007	Spot
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 10					Pinned	1	842	1	7/9/2007	Spot
YEW	Control Riparian 2	Arthropoda	Insecta	Diptera 3					Pinned	2	843- 844	2	7/9/2007	Spot
YEW	Control Riparian 4	Arthropoda	Insecta	Lepidoptera	Hesperiidae	Lerodea	eufala		Pinned	2	661- 662	3	7/9/2007	Spot
YEW	Control Riparian 4	Arthropoda	Insecta	Odonata 1					Pinned	2	663- 664	2	7/9/2007	Spot
YEW	Control Riparian 4	Arthropoda	Insecta	Hymenoptera	Apidae				Pinned	1	665	1	7/9/2007	Spot
YEW	Control Riparian 4	Arthropoda	Insecta	Hymenoptera 1					Pinned	1	666	1	7/9/2007	Spot
YEW	Control Riparian 4	Arthropoda	Insecta	Hymenoptera 2					Pinned	1	667	1	7/9/2007	Spot
YEW	Control Riparian 4	Arthropoda	Insecta	Odonata 2					Pinned	1	668	1	7/9/2007	Spot
YEW	Control Riparian 4	Arthropoda	Insecta	Hymenoptera 3					Pinned	1	669	1	7/9/2007	Spot
YEW	Control Riparian 4	Arthropoda	Insecta	Diptera 1					Pinned	1	475	1	7/9/2007	Malaise
YEW	Control Riparian 4	Arthropoda	Insecta	Diptera 2					Pinned	1	476	2	7/9/2007	Malaise
YEW	Control Riparian 4	Arthropoda	Insecta	Diptera 3					Pinned	1	477	3	7/9/2007	Malaise
YEW	Control Riparian 4	Arthropoda	Insecta	Hymenoptera 4					Pinned	1	478	1	7/9/2007	Malaise
YEW	Control Riparian 4	Arthropoda	Insecta	Diptera 4					None			abundant	7/9/2007	Malaise
YEW	Control Riparian 4	Arthropoda	Insecta	Diptera 5					None			1	7/9/2007	Malaise
YEW	Control Riparian 4	Arthropoda	Insecta	Hymenoptera	Formicidae				None			1	7/9/2007	Malaise
YEW	Control Riparian 4	Arthropoda	Insecta	Hymenoptera 5					None			1	7/9/2007	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Hymenoptera	Formicidae				ETOH	5	645	few	7/9/2007	Spot
YEW	Control Riparian 5	Arthropoda	Insecta	Lepidoptera					ETOH	1	643	1	7/9/2007	Spot
YEW	Control Riparian 5	Arthropoda	Arachnida 1						ETOH	1	646	1	7/9/2007	Spot
YEW	Control Riparian 5	Arthropoda	Arachnida 2						ETOH	1	647	1	7/9/2007	Spot
YEW	Control Riparian 5	Arthropoda	Insecta	Coleoptera 1					ETOH	5	648	5	7/9/2007	Spot
YEW	Control Riparian 5	Arthropoda	Insecta	Coleoptera 2					Pinned	1	649	1	7/9/2007	Spot
YEW	Control Riparian 5	Arthropoda	Insecta	Hymenoptera 1					Pinned	1	765	1	7/9/2007	Spot
YEW	Control Riparian 5	Arthropoda	Insecta	Coleoptera 3					Pinned	1	766	1	7/9/2007	Spot
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera	Asilidae				Pinned	2	461 and 464	2	7/9/2007	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Hymenoptera 2					Pinned	1	465	1	7/9/2007	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 1					Pinned	1	466	1	7/9/2007	Malaise

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YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 2					Pinned	1	467	1	7/9/2007	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Hymenoptera 3					Pinned	1	468	1	7/9/2007	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 3					Pinned	2	473 and 450	3	7/9/2007	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 4					None			abundant	7/9/2007	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 5					Pinned	1	479	1	7/9/2007	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 6					None			1	7/9/2007	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 7					None			1	7/9/2007	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 8					None			few	7/9/2007	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Lepidoptera	Lycaenidae	Leptotes	marina		Pinned	1	769	1	7/9/2007	Spot
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 1	Formicidae				Pinned	1	1835	1	7/1/2007	Spot
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 2					ETOH	2	348	2	7/1/2007	Spot
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 3					Pinned	1	359	1	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Diptera 1					ETOH	19	370	19	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Diptera 2					None			10	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Diptera 3					None			3	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Lepidoptera					Pinned	2	364 & 369	6	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 4					Pinned	1	360	1	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 5					Pinned	1	363	1	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 6					Pinned	1	365	1	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Coleoptera					Pinned	2	366 & 368	4	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Diptera 4					Pinned	1	367	1	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Homoptera					None			1	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Lepidoptera		Limnitis	archippus		Pinned	1	490	1	7/1/2007	Spot
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Trichoptera					ETOH	1	491	1	7/1/2007	Spot
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Homoptera	Cicadidae				Pinned	1	492	1	7/1/2007	Spot
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera	Apidae				Pinned	1	493	1	7/1/2007	Spot
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Coleoptera	Chrysomelidae				Pinned	2	494- 495	2	7/1/2007	Spot
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Diptera	Serfidae				Pinned	1	496	1	7/1/2007	Spot
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Diptera 5					Pinned	1	497	1	7/1/2007	Spot
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hemiptera	Gelastocoridae				Pinned	1	498	1	7/1/2007	Spot
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hemiptera	Reduviidae				Pinned	1	499	1	7/1/2007	Spot
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Odonata					None			1	7/1/2007	Spot
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera	Sphingidae				Pinned	1	200	1	7/1/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera					Pinned	1	201	1	7/1/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Homoptera	Cicadidae 1				Pinned	1	202	1	7/1/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 1					ETOH	4	335	few	7/1/2007	Spot
BWNWR	Reference Riparian Cott 4	Arthropoda	Malacostraca	Isopoda					ETOH	1	336	1	7/1/2007	Spot
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera	Apidae 1				Pinned	1	631	1	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 1					Pinned	1	632	1	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera	Ichneumonidae 1				Pinned	2	633- 634	2	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera	Serfidae 1				Pinned	1	635	1	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera	Ichneumonidae 2				Pinned	2	636- 637	7	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 2					Pinned	2	638- 639	5	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera	Culicidae				Pinned	1	640	2	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 2					Pinned	1	641	1	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera	Chironomidae 1				None			1 to 2	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera 1					None			5	7/1/2007	Malaise

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BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Homoptera 1					None			1	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Homoptera 2					None			1	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 3					None			38	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 4					None			1	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 1					Pinned	1	642	1	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Trichoptera 1					ETOH	1	650	1	7/1/2007	Spot
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera 2					Pinned	1	651	1	7/1/2007	Spot
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Homoptera	Cicadidae 2				Pinned	1	652	1	7/1/2007	Spot
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera	Apidae 2				Pinned	2	653- 654	2	7/1/2007	Spot
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera	Serfidae 2				Pinned	1	655	1	7/1/2007	Spot
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Orthoptera					Pinned	2	656- 657	2	7/1/2007	Spot
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 5					Pinned	1	658	1	7/1/2007	Spot
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera	Mutillidae				Pinned	1	659	1	7/1/2007	Spot
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 3					Pinned	1	660	1	7/1/2007	Spot
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera	Eleotiridae				Pinned	1	683	1	7/1/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Trichoptera 2					ETOH	5	684	few	7/1/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera 3					Pinned	2	685- 686	medium	7/1/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera	Coccinellidae				Pinned	2	687- 688	2	7/1/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera	Scarabidae				Pinned	2	689- 690	2	7/1/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 4					Pinned	2	691- 692	few	7/1/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coloeptra 4					Pinned	1	693	1	7/1/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coloeptra 5					Pinned	1	694	1	7/1/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coloeptra 6					Pinned	1	695	few	7/1/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coloeptra 7					Pinned	2	696- 697	few	7/1/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coloeptra 8					Pinned	1	698	few	7/1/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 5					Pinned	1	699	1	7/1/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 6					Pinned	2	700- 701	4	7/1/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera 9					None			few	7/1/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera 10					None			few	7/1/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Homoptera 1					None			medium	7/1/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera 11					None			few	7/1/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera	Chironomidae 2				None			medium	7/1/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 7					None			medium	7/1/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Homoptera 2					None			few	7/1/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera 12					None			few	7/1/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera	Staphylinidae				None			few	7/1/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 2					None			few	7/1/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 3					Envelope	6		6	7/1/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 4					Envelope	1		1	7/1/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 5					Envelope	3		3	7/1/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 6					Envelope	1		1	7/1/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 7					Envelope	1		few	7/1/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 8					Envelope	2		2	7/1/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 9	Dannus	gilippus	strigosus		Pinned	1	1411	1	7/1/2007	Spot
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 1					ETOH	3	330	few	7/1/2007	Spot
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 1					ETOH	1	331	1	7/1/2007	Spot
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Homoptera 1					ETOH	1	332	1	7/1/2007	Spot

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BWNWR	Reference Riparian Cott 6	Arthropoda	Arachnida 1						ETOH	2	333	2	7/1/2007	Spot
BWNWR	Reference Riparian Cott 6	Arthropoda	Arachnida 2						ETOH	1	334	1	7/1/2007	Spot
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Orthoptera					None			1	7/1/2007	Spot
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 2					Pinned	1	445	1	7/1/2007	Spot
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 2					Pinned	1	446	1	7/1/2007	Spot
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 3					Pinned	1	447	3	7/1/2007	Spot
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Odonata 1					Pinned	1	448	1	7/1/2007	Spot
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Odonata 2					Pinned	1	449	1	7/1/2007	Spot
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 3					Pinned	1	537	1	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera	Apidae				Pinned	2	538- 539	2	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 4					Pinned	2	540- 541	9	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 5					Pinned	1	542	1	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 4					Pinned	3	543- 545	4	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 6					Pinned	1	546	1	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 7					Pinned	1	670	7	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 8					Pinned	2	671- 672	3	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 5					Pinned	1	673	1	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 6					Pinned	2	674- 675	4	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 7					Pinned	2	676- 677	3	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 8					Pinned	1	678	1	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 9					Pinned	1	679	4	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 10					Pinned	1	680	1	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 6	Mollusca	Insecta	Diptera 11					Pinned	1	681	2	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 9					Pinned	1	682	1	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 12					None			abundant	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Homoptera 2					None			few	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 13					None			few	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 14					None			few	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Homoptera 3					None			1 to 2	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera	Chironomidae				None			1 to 2	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 15					None			1 to 2	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Coleoptera					None			1 to 2	7/1/2007	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 16					None			1 to 2	7/1/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera	Nymphalidae	Danaus	gillippus	strigosus	Pinned	1	100	1	6/30/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera	Pieridae	Colias	eurytheme		Pinned	2	101- 102	2	6/30/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera 1					Pinned	1	165	1	6/28/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera	Cicindelidae				Pinned	1	166	1	6/28/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 1					Pinned	2	167- 168	7	6/28/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 2					Pinned	1	169	3	6/28/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 3					Pinned	1	170	medium	6/28/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Neuroptera					Pinned	3	171- 173	14	6/28/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera	Scarabidae				Pinned	1	174	1	6/28/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera 2					Pinned	3	175- 176, 186	few	6/28/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 1					Pinned	1	177	1	6/28/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 2					Pinned	2	178- 179	2	6/28/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 3					Pinned	1	180	1	6/28/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 1					Pinned	3	181- 183	3	6/28/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 2					Pinned	2	184- 185	2	6/28/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Homoptera 1					Pinned	4	186- 189	few	6/28/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera 3					Pinned	3	190- 192	few	6/28/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera 4					Pinned	2	193- 194	few	6/28/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera 5					Pinned	3	195- 197	few	6/28/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Homoptera 2					Pinned	2	198- 199	2	6/28/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera 6					Pinned	1	203	1	6/28/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 4					Envelope	14		few	6/28/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 5					Pinned	1	204	few	6/28/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 6					Envelope	1		1	6/28/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 7					Envelope	1		1	6/28/2007	UV Light

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YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 8					Envelope	few		few	6/28/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Trichoptera					Pinned	1	205	2	6/28/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera	Staphylinidae				None			abundant	6/28/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Homoptera 3					None			super abundant	6/28/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 4					None			few	6/28/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera 7					None			medium	6/28/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera 8					None			medium	6/28/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera	Serfidae				Pinned	2	503- 504	11	6/29/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 3					Pinned	1	505	1	6/29/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 4					Pinned	1	506	1	6/29/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 5					Pinned	1	507	few	6/29/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 6					Pinned	2	508- 509	few	6/29/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 7					None		510	medium	6/29/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 8					Pinned	2	511- 512	medium	6/29/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 9					Pinned	1	513	few	6/29/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 10					Pinned	1	514	1	6/29/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 11					Pinned	1	515	1	6/29/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 12					Pinned	1	516	1	6/29/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 13					Pinned	1	517	1	6/29/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 5					Pinned	2	518- 519	4	6/29/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 6					Pinned	1	520	few	6/29/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 7					Pinned	1	521	1	6/29/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 8					Pinned	1	522	4	6/29/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 9					None			few	6/29/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 14					None			abundant	6/29/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera	Chironomidae				None			few	6/29/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 15					None			abundant	6/29/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Homoptera 2					None			few	6/29/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Homoptera 3					None			1 to 2	6/29/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 16					None			few	6/29/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hemiptera 1					ETOH	9	604	few	6/30/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera 10					Pinned	1	605	2	6/30/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Homoptera 4					None			2	6/30/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Homoptera 5					None			1	6/30/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera 10					Pinned	1	606	1 to 2	6/30/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 10					Pinned	1	607	1 to 2	6/30/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 11					Pinned	2	608- 609	2	6/30/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera	Asilidae				Pinned	1	610	1	6/30/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera	Coccinellidae				Pinned	1	611	1	6/30/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hemiptera 2					ETOH	3	612	few	6/30/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 17					Pinned	1	613	1	6/30/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Homoptera 6					Pinned	2	614 and 615	2	6/30/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 12					Pinned	1	616	1	6/30/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera					ETOH	2	617	2	6/30/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Arachnida						ETOH	1	618	1	6/30/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 18					ETOH	4	619	few	6/30/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera	Hesperiidae	Pyrgus	albecens		Pinned	1	620	1	6/30/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera	Lycaenidae	Hemiargus	ceraunus		Pinned	1	621	3	6/30/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Odonata					Pinned	1	622	1	6/30/2007	Spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Lepidoptera 1	Lycaenidae	Strymon	melinus	franki	Pinned	1	103	1	6/30/2007	Spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Lepidoptera 2	Hesperiidae	Pyrgus	albescens		Pinned	1	104	1	6/30/2007	Spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Lepidoptera 3	Lycaenidae	Leptotes	marina		Pinned	2	105	1	6/30/2007	Spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Lepidoptera 4					Pinned	1	106	1	6/30/2007	Spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Odonata 1					Pinned	1	107	1	6/30/2007	Spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Odonata 2					Pinned	1	108	1	6/30/2007	Spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hymenoptera	Apidae				Pinned	1	424	1	6/30/2007	Spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hymenoptera 1					Pinned	2	425- 426	2	6/30/2007	Spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Coleoptera	Coccinellidae				Pinned	1	427	1	6/30/2007	Spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Coleoptera 1					Pinned	1	428	1	6/30/2007	Spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Coleoptera 2					Pinned	1	429	1	6/30/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Homoptera 1					Pinned	2	430- 431	2	6/30/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Homoptera 2					Pinned	1	432	1	6/30/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera					Pinned	1	523	1	6/30/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hymenoptera 2					Pinned	1	524	1	6/30/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera	Serfidae				Pinned	1	525	3	6/30/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera	Asilidae				Pinned	1	526	1	6/30/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 1					Pinned	3	527- 529	few	6/30/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 2					Pinned	1	530	1	6/30/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 3					Pinned	2	531- 532	few	6/30/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 4					Pinned	1	533	1	6/30/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hymenoptera 3					Pinned	2	534- 535	2	6/30/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Homoptera 3								few	6/30/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 5								few	6/30/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 6								medium	6/30/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera	Chironomidae							few	6/30/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera	Apidae				Pinned	2	206- 207	2	6/30/2007	Spot
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera 1					Pinned	1	208	1	6/30/2007	Spot
YEW	Adjacent Ag 5	Arthropoda	Insecta	Coleoptera 1					Pinned	1	209	1	6/30/2007	Spot
YEW	Adjacent Ag 5	Arthropoda	Insecta	Coleoptera 2					Pinned	1	210	1	6/30/2007	Spot
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera	Serfidae 1				Pinned	1	211	1	6/30/2007	Spot
YEW	Adjacent Ag 5	Arthropoda	Insecta	Coleoptera 3					Pinned	1	212	1	6/30/2007	Spot
YEW	Adjacent Ag 5	Arthropoda	Insecta	Homoptera					Pinned	2	213- 214	2	6/30/2007	Spot
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera 2					Pinned	1	215	1	6/30/2007	Spot

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YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera	Asilidae				Pinned	2	282- 283	2	6/30/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 1					Pinned	1	284	few	6/30/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 2					Pinned	2	285- 286	few	6/30/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 3					Pinned	1	287	1	6/30/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 4					Pinned	1	288	1	6/30/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 5					Pinned	3	289- 291	few	6/30/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 6					Pinned	2	292- 293	medium	6/30/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 7					Pinned	1	294	medium	6/30/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 8					Pinned	2	295- 296	medium	6/30/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera	Serfidae 2				Pinned	2	297- 298	12	6/30/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera	Ichneumonidae 1				Pinned	1	299	1	6/30/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera	Ichneumonidae 2				Pinned	1	400	1	6/30/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera 3					Pinned	1	401	1	6/30/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera 4					ETOH	abundant	402	abundant	6/30/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Homoptera	Aphidae				none			few	6/30/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 9					none			medium	6/30/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 10					none			few	6/30/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera 5					none			few	6/30/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Lepidoptera					ETOH	3	385	few	6/30/2007	Spot
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera (larvae)					ETOH	4	386	few	6/30/2007	Spot
YEW	Adjacent Ag 5	Arthropoda	Insecta	Lepidoptera		Leptotes	marina		Pinned	1	502	6	6/30/2007	Spot
YEW	Adjacent Ag 5	Arthropoda	Insecta	Lepidoptera		Brephidium	exile		none			1	6/30/2007	Spot

Research AWPf Invertebrate Database-September Collection																				
Site	Location	Phylum	Class	Order	Family	Genus	Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Collected By:	Method of Collection	Time	Temp (°C)	Wind (mph)	% Cloud Cover	Description	
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 1				ETOH	3	1029	3	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	735	30	5 to 10	5	brown/yellow	
YEW	Restored Wetland 1	Arthropoda	Insecta	Odonata 1				ETOH	3	1030	3	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	735	30	5 to 10	5	damselflies	
YEW	Restored Wetland 1	Arthropoda	Insecta	Ephemeroptera				ETOH	1	1031	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	735	30	5 to 10	5		
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera 1				Pinned	1	1122	1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1944	35	5 to 10	75		
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera 2				Pinned	1	1123	5	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1944	35	5 to 10	75		
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera 3				Pinned	1	1124	1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1944	35	5 to 10	75	small green moth	
YEW	Restored Wetland 1	Arthropoda	Insecta	Odonata 2				Pinned	1	1121	1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1944	35	5 to 10	75		
YEW	Restored Wetland 1	Arthropoda	Insecta	Trichoptera 1				Pinned	4	1125	4	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1944	35	5 to 10	75		
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 2				Pinned	1	1126	1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1944	35	5 to 10	75		
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera 4				Pinned	1	1127	22	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1944	35	5 to 10	75	stiny brown moth	
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 1				Pinned	1	1128	2	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1944	35	5 to 10	75	pointed ab	
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 2				Pinned	1	1129	1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1944	35	5 to 10	75	blunt end to ab	
YEW	Restored Wetland 1	Arthropoda	Insecta	Homoptera 1				Pinned	1	1130	1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1944	35	5 to 10	75	leaf hopper	
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 3				Pinned	1	1131	29	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1944	35	5 to 10	75	brown	
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 4				None			1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1944	35	5 to 10	75	light brown	
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 5				None			10	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1944	35	5 to 10	75	tiny round black	
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 6				None			11	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1944	35	5 to 10	75	tiny narrow black	
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 7				None			7	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1944	35	5 to 10	75	tiny brown	
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 3				None			3	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1944	35	5 to 10	75	tiny red wasp	
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera 1				None			6	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1944	35	5 to 10	75	tiny flies w/dark spots on wings	
YEW	Restored Wetland 1	Arthropoda	Insecta	Homoptera 2				None			5	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1944	35	5 to 10	75	tiny white	
YEW	Restored Wetland 1	Arthropoda	Insecta	Homoptera 3				None			2	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1944	35	5 to 10	75	tiny clear wings	

YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera 2				None		1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1944	35	5 to 10	75	tiny spotted wings	
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera	Staphylinidae			None		2	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1944	35	5 to 10	75		
YEW	Restored Wetland 1	Arthropoda	Insecta	Trichoptera 2				ETOH	2	1118	2	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1944	35	5 to 10	75	tiny all brown wings
YEW	Restored Wetland 1	Arthropoda	Insecta	Trichoptera 3				ETOH	1	1118	1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1944	35	5 to 10	75	spotted wings
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera	Chironomidae 1			None			5	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1944	35	5 to 10	75	green midge
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera	Chironomidae 2			None			super abundant	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1944	35	5 to 10	75	brown midge
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 4				None			2	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1944	35	5 to 10	75	tiny wasp
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 5				Pinned	1	1239	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	735	30	5 to 10	5	
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 6				Pinned	1	1240	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	735	30	5 to 10	5	
YEW	Restored Wetland 1	Arthropoda	Insecta	Odonata 3				Pinned	1	1241	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	735	30	5 to 10	5	damselfly
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera 5				Pinned	1	1242	2	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	735	30	5 to 10	5	blue
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera	Hesperiidae			None			1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12.5 hours	30-34	2 to 5	5 to 10	same as 1374
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera 3				None			few	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12.5 hours	30-34	2 to 5	5 to 10	tiny green gnats
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera 4				None			medium	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12.5 hours	30-34	2 to 5	5 to 10	tiny tan gnats
YEW	Restored Wetland 1	Arthropoda	Insecta	Homoptera 4				None			2	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12.5 hours	30-34	2 to 5	5 to 10	brown leaf hopper
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera 5				None			39	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12.5 hours	30-34	2 to 5	5 to 10	small green flies
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera 6				None			9	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12.5 hours	30-34	2 to 5	5 to 10	small black flies
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 7				Pinned	1	1261	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12.5 hours	30-34	2 to 5	5 to 10	fly ant
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera 7				ETOH	15	1262	15	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12.5 hours	30-34	2 to 5	5 to 10	small wasp looking fly
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera 8				None			8	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12.5 hours	30-34	2 to 5	5 to 10	house fly
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera 9				None			1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12.5 hours	30-34	2 to 5	5 to 10	blunt headed black fly
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera 6				Pinned	1	1385	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	735	30	5 to 10	5	blue butterfly
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera	Hesperiidae			Pinned	1	1386	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	735	30	5 to 10	5	
YEW	Restored Wetland 1	Arthropoda	Insecta	Odonata 4				Pinned	1	1387	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	735	30	5 to 10	5	saddle bags

YEW	Restored Wetland 1	Arthropoda	Insecta	Odonata 5				Pinned	1	1338	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	735	30	5 to 10	5	blue
YEW	Restored Wetland 1	Arthropoda	Insecta	Odonata 6				Pinned	1	1339	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	735	30	5 to 10	5	small blueish
YEW	Restored Wetland 2	Arthropoda	Insecta	Odonata 1				Pinned	2	949-950	2	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	735	32	5 to 15	20	
YEW	Restored Wetland 2	Arthropoda	Insecta	Odonata 2				Pinned	1	951	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	735	32	5 to 15	20	
YEW	Restored Wetland 2	Arthropoda	Insecta	Lepidoptera 1				Pinned	1	952	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	735	32	5 to 15	20	
YEW	Restored Wetland 2	Arthropoda	Insecta	Orthoptera				Pinned	1	953	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	735	32	5 to 15	20	brown
YEW	Restored Wetland 2	Arthropoda	Insecta	Hymenoptera 1				Pinned	1	954	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	735	32	5 to 15	20	
YEW	Restored Wetland 2	Arthropoda	Insecta	Lepidoptera	Hesperiidae			None			1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	21-33	0-10	20-10	same as 1096
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 1				None			4	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	21-33	0-10	20-10	same as 1148
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 2				Pinned	1	1238	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	21-33	0-10	20-10	
YEW	Restored Wetland 2	Arthropoda	Insecta	Hymenoptera 2				None			1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	21-33	0-10	20-10	same as 1149
YEW	Restored Wetland 2	Arthropoda	Insecta	Hymenoptera 3				None			2	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	21-33	0-10	20-10	same as 1145
YEW	Restored Wetland 2	Arthropoda	Insecta	Coleoptera	Curculionidae			None			5	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	21-33	0-10	20-10	small beige
YEW	Restored Wetland 2	Arthropoda	Insecta	Homoptera 1				None			5	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	21-33	0-10	20-10	small yellow leaf hopper
YEW	Restored Wetland 2	Arthropoda	Insecta	Homoptera 2				None			4	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	21-33	0-10	20-10	tiny green leaf hopper
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 3				None			3	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	21-33	0-10	20-10	tiny with spotted wings
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 4				None			7	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	21-33	0-10	20-10	tiny yellow flies
YEW	Restored Wetland 2	Arthropoda	Insecta	Hymenoptera 4				None			1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	21-33	0-10	20-10	red abdomen
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera	Chironomidae			None			2	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	21-33	0-10	20-10	tiny green yellow
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 5				None			abundant	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	21-33	0-10	20-10	tiny iridescent green
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 6				None			2	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	21-33	0-10	20-10	tiny
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 7				None			1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	21-33	0-10	20-10	larger iridescent green
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 8				None			abundant	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	21-33	0-10	20-10	tiny black
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 9				None			abundant	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	21-33	0-10	20-10	tiny microscopic fly

YEW	Restored Wetland 2	Arthropoda	Insecta	Coleoptera 1				Pinned	1	1331	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	735	32	5 to 15	20	tiger beetle
YEW	Restored Wetland 2	Arthropoda	Insecta	Odonata 3				Pinned	1	1332	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	735	32	5 to 15	20	dragonfly
YEW	Restored Wetland 2	Arthropoda	Insecta	Odonata 4				Pinned	1	1333	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	735	32	5 to 15	20	
YEW	Restored Wetland 2	Arthropoda	Insecta	Odonata 5				Pinned	1	1334	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	735	32	5 to 15	20	blue dragonfly
YEW	Restored Wetland 2	Arthropoda	Insecta	Odonata 6				Pinned	3	1335-1337	7	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	735	32	5 to 15	20	darner green blue
YEW	Restored Wetland 2	Arthropoda	Insecta	Odonata 7				Pinned	1	1340	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	735	32	5 to 15	20	tiny damselfly
YEW	Restored Wetland 2	Arthropoda	Insecta	Odonata 8				Pinned	1	1038	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot					caught by students red dragonfly
YEW	Restored Wetland 2	Arthropoda	Insecta	Odonata 9				Pinned	1	1163	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot					caught by students; tiny damselfly
YEW	Restored Wetland 2	Arthropoda	Insecta	Lepidoptera				Pinned	1	1408	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot					caught by students; blue
YEW	Restored Wetland 4	Arthropoda	Insecta	Orthoptera 1				Pinned	1	1036	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	743	34	5 to 10	3	grasshopper
YEW	Restored Wetland 4	Arthropoda	Insecta	Orthoptera 2				Pinned	1	1037	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	743	34	5 to 10	3	grasshopper
YEW	Restored Wetland 4	Arthropoda	Insecta	Odonata 1				Pinned	1	1038	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	743	34	5 to 10	3	blue damselfly
YEW	Restored Wetland 4	Arthropoda	Insecta	Lepidoptera 1				Pinned	1	1039	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	743	34	5 to 10	3	
YEW	Restored Wetland 4	Arthropoda	Insecta	Lepidoptera 2				None			1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	743	34	5 to 10	3	same as 1041
YEW	Restored Wetland 4	Arthropoda	Insecta	Lepidoptera 3				Pinned	1	1041	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	743	34	5 to 10	3	
YEW	Restored Wetland 4	Arthropoda	Insecta	Hymenoptera 1	Apidae			Pinned	1	1042	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	743	34	5 to 10	3	
YEW	Restored Wetland 4	Arthropoda	Insecta	Hymenoptera 2				Pinned	1	1043	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	743	34	5 to 10	3	bee
YEW	Restored Wetland 4	Arthropoda	Insecta	Odonata 2				Pinned	1	1044	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	743	34	5 to 10	3	blue dragonfly
YEW	Restored Wetland 4	Arthropoda	Insecta	Hymenoptera 3				Pinned	3	1179-1181	3	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	29-34	0 to 5	3 to 10	wasps
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera 1				Pinned	1	1182	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	29-34	0 to 5	3 to 10	black fly
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera 2				Pinned	1	1183	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	29-34	0 to 5	3 to 10	
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera 3				None			1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	29-34	0 to 5	3 to 10	small black flies
YEW	Restored Wetland 4	Arthropoda	Insecta	Hymenoptera 4				Pinned	1	1184	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	29-34	0 to 5	3 to 10	wasp
YEW	Restored Wetland 4	Arthropoda	Insecta	Hymenoptera 5				Pinned	1	1185	2	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	29-34	0 to 5	3 to 10	small wasp

YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera 4					None		1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	29-34	0 to 5	3 to 10	small green fly
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera 5					None		47	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	29-34	0 to 5	3 to 10	tiny green flies
YEW	Restored Wetland 4	Arthropoda	Insecta	Odonata 4					Pinned	1	1405	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	743	34	5 to 10	3	
YEW	Control Wetland 2	Arthropoda	Insecta	Coleoptera	Formicidae				ETOH	60	1158	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	705	32	5 to 12	0	red ants
YEW	Control Wetland 2	Arthropoda	Insecta	Lepidoptera					Pinned	1	1159	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	705	32	5 to 12	0	small tan moth
YEW	Control Wetland 2	Arthropoda	Insecta	Odonata 1					Pinned	1	1161	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	705	32	5 to 12	0	blue damsels
YEW	Control Wetland 2	Arthropoda	Insecta	Odonata 2					Pinned	1	1162	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	705	32	5 to 12	0	brown dragonfly
YEW	Control Wetland 2	Arthropoda	Insecta	Odonata 3					None			9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	705	32	5 to 12	0	brown dragonfly
YEW	Control Wetland 2	Arthropoda	Insecta	Odonata 4					Pinned	2	1164-1165	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	705	32	5 to 12	0	blue dragonfly
YEW	Control Wetland 2	Arthropoda	Insecta	Odonata 5					Pinned	1	1166	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	705	32	5 to 12	0	red saddlebags
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 1					Pinned	1	1120	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5	29-35	3 to 7	0-20	
YEW	Control Wetland 2	Arthropoda	Insecta	Hymenoptera 1					Pinned	1	1091	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5	29-35	3 to 7	0-20	
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 2					Pinned	1	1092	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5	29-35	3 to 7	0-20	
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 3					None			9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5	29-35	3 to 7	0-20	grey and black striped ab
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 4					None			9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5	29-35	3 to 7	0-20	black
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 5					None			9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5	29-35	3 to 7	0-20	small black and grey striped ab
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 6					None		Medium	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5	29-35	3 to 7	0-20	small iridescent green short ab
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 7					None		Medium	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5	29-35	3 to 7	0-20	small iridescent green long ab
YEW	Control Wetland 2	Arthropoda	Insecta	Homoptera 1					None		8	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5	29-35	3 to 7	0-20	tiny green leaf hopper
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 8					None		8	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5	29-35	3 to 7	0-20	tiny black fly
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera	Chironomidae 1				None		Medium	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5	29-35	3 to 7	0-20	tiny
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera	Chironomidae 2				None		1	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5	29-35	3 to 7	0-20	small
YEW	Control Wetland 3	Arthropoda	Insecta	Odonata 1					Envelope	2	1066	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	722	28	5 to 10	0	
YEW	Control Wetland 3	Arthropoda	Insecta	Odonata 2					Pinned	1	1067	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	722	28	5 to 10	0	

YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 1				Pinned	1	1093	3	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5 hours	28-36	0-5	0-15	large fly
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 2				Pinned	1	1094	1	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5 hours	28-36	0-5	0-15	iridescent green large
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 3				Pinned	1	1095	1	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5 hours	28-36	0-5	0-15	yellowish and black striped
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera	Hesperiidae			Pinned	1	1096	1	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5 hours	28-36	0-5	0-15	
YEW	Control Wetland 3	Arthropoda	Insecta	Odonata 3				Pinned	2	1292 and 1293	2	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5 hours	28-36	0-5	0-15	
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 4				None			1	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5 hours	28-36	0-5	0-15	yellow fly
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 5				None			1	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5 hours	28-36	0-5	0-15	fly with point on end of ab
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 6				None			1	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5 hours	28-36	0-5	0-15	small black on end of wings
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 7				None			abundant	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5 hours	28-36	0-5	0-15	iridescent green short ab
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 8				None			medium	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5 hours	28-36	0-5	0-15	iridescent green long ab
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 1				Pinned	1	1186	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	2051	34	5	10	moth
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 2				None			2	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	2051	34	5	10	same as 1122 or 1232
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 3				None			70	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	2051	34	5	10	same as 1123
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 4				Pinned	1	1188	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	2051	34	5	10	
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 5				Pinned	1	1187	6	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	2051	34	5	10	
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 6				Pinned	1	1189	12	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	2051	34	5	10	
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 7				None		1233	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	2051	34	5	10	same as 1233
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 8				None			1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	2051	34	5	10	tiny tan
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 9				None			6	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	2051	34	5	10	tiny tan
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 1	Scarabidae			Pinned	1	1190	3	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	2051	34	5	10	June bug
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 2				Pinned	1	1191	2	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	2051	34	5	10	black
YEW	Control Wetland 3	Arthropoda	Insecta	Blateria				Pinned	1	1192	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	2051	34	5	10	cockroach
YEW	Control Wetland 3	Arthropoda	Insecta	Hymenoptera	Formicidae			None			4	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	2051	34	5	10	Flying ant
YEW	Control Wetland 3	Arthropoda	Insecta	Odonata 4				None			1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	2051	34	5	10	brown damselfly

YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 3				Pinned	1	1194	10	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	2051	34	5	10	small tan beetle
YEW	Control Wetland 3	Arthropoda	Insecta	Homoptera 1				Pinned	1	1195	2	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	2051	34	5	10	leafhopper
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 4				None			2	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	2051	34	5	10	brown beetles
YEW	Control Wetland 3	Arthropoda	Insecta	Hymenoptera 1				None			9	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	2051	34	5	10	same as 1227
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera	Staphylinidae			None			super abundant	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	2051	34	5	10	
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 5				None			3	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	2051	34	5	10	tan beetles
YEW	Control Wetland 3	Arthropoda	Insecta	Homoptera 2				None			super abundant	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	2051	34	5	10	tiny leafhopper
YEW	Control Wetland 3	Arthropoda	Insecta	Homoptera 3				None			super abundant	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	2051	34	5	10	tiny green leafhopper
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 6				None			Medium	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	2051	34	5	10	tiny black beetles
YEW	Control Wetland 3	Arthropoda	Insecta	Hymenoptera 2				None			Medium	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	2051	34	5	10	tiny flying ants
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 9				None			Medium	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	2051	34	5	10	tiny black flies
YEW	Control Wetland 3	Arthropoda	Insecta	Hymenoptera 3				None			Few	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	2051	34	5	10	tiny black wasps
YEW	Control Wetland 4	Arthropoda	Malacostraca	Decapoda 1				ETOH	1	1032	1	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	720	28	5 to 10	0	glass shrimp
YEW	Control Wetland 4	Arthropoda	Gastropoda 1					ETOH	5	1033	5	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	720	28	5 to 10	0	snails
YEW	Control Wetland 4	Arthropoda	Insecta	Odonata 1				ETOH	1	1034	1	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	720	28	5 to 10	0	damselfly larvae
YEW	Control Wetland 4	Arthropoda	Malacostraca	Decapoda 2				ETOH	2	1035	2	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	720	28	5 to 10	0	gammarus
YEW	Control Wetland 4	Arthropoda	Insecta	Hymenoptera 1				Pinned	1	1116	1	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	720	28	5 to 10	0	
YEW	Control Wetland 4	Arthropoda	Insecta	Diptera 1				None			super abundant	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours 45 minutes	28-32	5 to 10	0-20	small green flies
YEW	Control Wetland 4	Arthropoda	Insecta	Diptera 2				None			super abundant	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours 45 minutes	28-32	5 to 10	0-20	tiny tan gnats
YEW	Control Wetland 4	Arthropoda	Insecta	Diptera 3				None			super abundant	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours 45 minutes	28-32	5 to 10	0-20	tiny green gnats
YEW	Control Wetland 4	Arthropoda	Insecta	Homoptera				None			medium	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours 45 minutes	28-32	5 to 10	0-20	tiny green leaf hoppers
YEW	Control Wetland 4	Arthropoda	Insecta	Diptera 4				Pinned	1	1251	5	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours 45 minutes	28-32	5 to 10	0-20	black flies
YEW	Control Wetland 4	Arthropoda	Insecta	Odonata 2				None			1	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours 45 minutes	28-32	5 to 10	0-20	brown damsel
YEW	Control Wetland 4	Arthropoda	Insecta	Diptera	Asilidae			Pinned	1	1253	1	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours 45 minutes	28-32	5 to 10	0-20	Robber fly

YEW	Control Wetland 4	Arthropoda	Insecta	Diptera 5				Pinned	1	1254	1	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours 45 minutes	28-32	5 to 10	0-20	spotted wing fly
YEW	Control Wetland 4	Arthropoda	Insecta	Diptera 6				Pinned	1	1255	1	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours 45 minutes	28-32	5 to 10	0-20	striped wing fly
YEW	Control Wetland 4	Arthropoda	Insecta	Diptera 7				Pinned	1	1256	4	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours 45 minutes	28-32	5 to 10	0-20	bee looking fly
YEW	Control Wetland 4	Arthropoda	Insecta	Diptera	Serfidae			None			2	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours 45 minutes	28-32	5 to 10	0-20	
YEW	Control Wetland 4	Arthropoda	Insecta	Diptera 8				None			15	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours 45 minutes	28-32	5 to 10	0-20	black flies
YEW	Control Wetland 4	Arthropoda	Insecta	Diptera 9				Pinned	1	1257	1	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours 45 minutes	28-32	5 to 10	0-20	small green flies
YEW	Control Wetland 4	Arthropoda	Insecta	Hymenoptera 2				Pinned	1	1258	1	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours 45 minutes	28-32	5 to 10	0-20	small bee
BWNWR	Reference Wetland 2	Arthropoda	Gastropoda 1					ETOH	2	955	2	9/11/2007	H. Kloeppe; A. Hadley	Spot	707	27	slight breeze	0	
BWNWR	Reference Wetland 2	Arthropoda	Gastropoda 2					ETOH	2	956	2	9/11/2007	H. Kloeppe; A. Hadley	Spot	707	27	slight breeze	0	
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Hompotera	Notonectidae			ETOH	1	957	1	9/11/2007	H. Kloeppe; A. Hadley	Spot	707	27	slight breeze	0	
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera	Chironomidae			None			few	9/11/2007	H. Kloeppe; A. Hadley	Spot	707	27	slight breeze	0	midges
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 1				None			few	9/11/2007	H. Kloeppe; A. Hadley	Malaise	11.5	27-30	0	0	small black flies
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 2				None			9	9/11/2007	H. Kloeppe; A. Hadley	Malaise	11.5	27-30	0	0	small green flies
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 3				None			10	9/11/2007	H. Kloeppe; A. Hadley	Malaise	11.5	27-30	0	0	small black flies
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 4				None			1	9/11/2007	H. Kloeppe; A. Hadley	Malaise	11.5	27-30	0	0	house fly
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Hymenoptera				Pinned	1	1061	1	9/11/2007	H. Kloeppe; A. Hadley	Malaise	11.5	27-30	0	0	bee
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 5				Pinned	1	1062	1	9/11/2007	H. Kloeppe; A. Hadley	Malaise	11.5	27-30	0	0	house fly
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 6				Pinned	1	1063	1	9/11/2007	H. Kloeppe; A. Hadley	Malaise	11.5	27-30	0	0	green fly
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 7				Pinned	1	1064	medium	9/11/2007	H. Kloeppe; A. Hadley	Malaise	11.5	27-30	0	0	fly striped ab.
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 8	Serfidae			Pinned	1	1065	1	9/11/2007	H. Kloeppe; A. Hadley	Malaise	11.5	27-30	0	0	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata 1				Pinned	1	932	1	9/11/2007	H. Kloeppe; A. Hadley	Spot	929	30	2	0	large dragonfly
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata 2				Pinned	1	933	1	9/11/2007	H. Kloeppe; A. Hadley	Spot	929	30	2	0	dragonfly blue
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata 3				Pinned	1	934	1	9/11/2007	H. Kloeppe; A. Hadley	Spot	929	30	2	0	damselfly
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Hymenoptera 1				Pinned	2	935 & 936	2	9/11/2007	H. Kloeppe; A. Hadley	Spot	929	30	2	0	

BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata 4				Pinned	1	937	1	9/11/2007	H. Kloeppel; A. Hadley	UV Light	1937	25	0	0	female
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Lepidoptera 1				Pinned	1	938	1	9/11/2007	H. Kloeppel; A. Hadley	UV Light	1937	25	0	0	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Lepidoptera 2				Pinned	1	939	1	9/11/2007	H. Kloeppel; A. Hadley	UV Light	1937	25	0	0	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Lepidoptera 3				Pinned	1	940	8	9/11/2007	H. Kloeppel; A. Hadley	UV Light	1937	25	0	0	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Trichoptera				ETOH	1	941	1	9/11/2007	H. Kloeppel; A. Hadley	UV Light	1937	25	0	0	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Coleoptera	Cicindellidae			Pinned	1	942	1	9/11/2007	H. Kloeppel; A. Hadley	UV Light	1937	25	0	0	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Coleoptera 1				Pinned	2	943- 944	4	9/11/2007	H. Kloeppel; A. Hadley	UV Light	1937	25	0	0	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera	Serfidae 1			Pinned	1	945	1	9/11/2007	H. Kloeppel; A. Hadley	UV Light	1937	25	0	0	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Lepidoptera 4				Pinned	1	946	3	9/11/2007	H. Kloeppel; A. Hadley	UV Light	1937	25	0	0	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Lepidoptera 5				Pinned	1	947	3	9/11/2007	H. Kloeppel; A. Hadley	UV Light	1937	25	0	0	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 1				Pinned	1	948	2	9/11/2007	H. Kloeppel; A. Hadley	UV Light	1937	25	0	0	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Coleoptera 2				None			6	9/11/2007	H. Kloeppel; A. Hadley	UV Light	1937	25	0	0	small vlack round
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Coleoptera	Staphylinidae			None			super abundant	9/11/2007	H. Kloeppel; A. Hadley	UV Light	1937	25	0	0	tiny
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 2				None			4	9/11/2007	H. Kloeppel; A. Hadley	UV Light	1937	25	0	0	tiny yellow/white
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Lepidoptera 6				None			1	9/11/2007	H. Kloeppel; A. Hadley	UV Light	1937	25	0	0	tiny white moth
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Hymenoptera 2				None			1	9/11/2007	H. Kloeppel; A. Hadley	UV Light	1937	25	0	0	tiny brown/yellow wasp
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Homoptera 1				None			3	9/11/2007	H. Kloeppel; A. Hadley	UV Light	1937	25	0	0	green leaf hopper
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 3				None			2	9/11/2007	H. Kloeppel; A. Hadley	UV Light	1937	25	0	0	white yellowfly
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata 4				ETOH	8	962	8	9/11/2007	H. Kloeppel; A. Hadley	Spot	929	30	2	0	dragonfly larvae
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata 5				ETOH	2	963	2	9/11/2007	H. Kloeppel; A. Hadley	Spot	929	30	2	0	damselfly larvae
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata 6				ETOH	2	964	2	9/11/2007	H. Kloeppel; A. Hadley	Spot	929	30	2	0	dragonfly larvae
BWNWR	Reference Wetland 3	Arthropoda	Gastropoda					ETOH	5	965	5	9/11/2007	H. Kloeppel; A. Hadley	Spot	929	30	2	0	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 4				ETOH	1	966	1	9/11/2007	H. Kloeppel; A. Hadley	Spot	929	30	2	0	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Homoptera 2				ETOH	1	968	1	9/11/2007	H. Kloeppel; A. Hadley	Spot	929	30	2	0	

BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 5				Pinned	1	1133	22	9/11/2007	H. Kloeppe; A. Hadley	Malaise	10.5	32-27	slight breeze-0	0	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera	Serfidae 2			Pinned	1	1134	1	9/11/2007	H. Kloeppe; A. Hadley	Malaise	10.5	32-27	slight breeze-0	0	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera	Serfidae 3			Pinned	2	1135	2	9/11/2007	H. Kloeppe; A. Hadley	Malaise	10.5	32-27	slight breeze-0	0	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 6				Pinned	1	1136	1	9/11/2007	H. Kloeppe; A. Hadley	Malaise	10.5	32-27	slight breeze-0	0	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera	Serfidae 4			Pinned	1	1137	1	9/11/2007	H. Kloeppe; A. Hadley	Malaise	10.5	32-27	slight breeze-0	0	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata 7				Pinned	2	1138 and 1139	2	9/11/2007	H. Kloeppe; A. Hadley	Malaise	10.5	32-27	slight breeze-0	0	damselfly
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 7				Pinned			3	9/11/2007	H. Kloeppe; A. Hadley	Malaise	10.5	32-27	slight breeze-0	0	dark black small
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 8				None			3	9/11/2007	H. Kloeppe; A. Hadley	Malaise	10.5	32-27	slight breeze-0	0	yellowish/white striped ab
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 9				None			5	9/11/2007	H. Kloeppe; A. Hadley	Malaise	10.5	32-27	slight breeze-0	0	tiny black
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera	Chironomidae 1			None			5	9/11/2007	H. Kloeppe; A. Hadley	Malaise	10.5	32-27	slight breeze-0	0	small yellow midge
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 10				None			15	9/11/2007	H. Kloeppe; A. Hadley	Malaise	10.5	32-27	slight breeze-0	0	iridescent green; yellow legs
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 11				None			2	9/11/2007	H. Kloeppe; A. Hadley	Malaise	10.5	32-27	slight breeze-0	0	spotted wings picture fly
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Hymenoptera				None			1	9/11/2007	H. Kloeppe; A. Hadley	Malaise	10.5	32-27	slight breeze-0	0	black wasp
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 12				None			3	9/11/2007	H. Kloeppe; A. Hadley	Malaise	10.5	32-27	slight breeze-0	0	small yellow fly with long antennae
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 13				None			1	9/11/2007	H. Kloeppe; A. Hadley	Malaise	10.5	32-27	slight breeze-0	0	small dotted wings
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Homoptera 3				None			1	9/11/2007	H. Kloeppe; A. Hadley	Malaise	10.5	32-27	slight breeze-0	0	leaf hopper tiny
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera	Chironomidae 2			None			19	9/11/2007	H. Kloeppe; A. Hadley	Malaise	10.5	32-27	slight breeze-0	0	tiny midge
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera	Chironomidae 3			None			7	9/11/2007	H. Kloeppe; A. Hadley	Malaise	10.5	32-27	slight breeze-0	0	medium tiny midge
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Odonata 1				ETOH	2	958	2	9/11/2007	H. Kloeppe; A. Hadley	Spot	837	32	1 to 5	0	damselfly
BWNWR	Reference Wetland 5	Arthropoda	Malacostraca	Decapoda				ETOH	1	959	1	9/11/2007	H. Kloeppe; A. Hadley	Spot	837	32	1 to 5	0	
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Homoptera				ETOH	5	960	5	9/11/2007	H. Kloeppe; A. Hadley	Spot	837	32	1 to 5	0	
BWNWR	Reference Wetland 5	Arthropoda	Gastropoda					ETOH	1	961	1	9/11/2007	H. Kloeppe; A. Hadley	Spot	837	32	1 to 5	0	
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 1				Pinned	2	1015-1016	44	9/11/2007	H. Kloeppe; A. Hadley	Malaise	10.5 hours	32-25	0-5	0	
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 2				Pinned	1	1017	4	9/11/2007	H. Kloeppe; A. Hadley	Malaise	10.5 hours	32-25	0-5	0	

BWNWR	Reference Wetland 5	Arthropoda	Insecta	Hymenoptera 1				Pinned	2	1018-1019	2	9/11/2007	H. Kloeppe; A. Hadley	Malaise	10.5 hours	32-25	0-5	0	
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Orthoptera				Pinned	1	1020	1	9/11/2007	H. Kloeppe; A. Hadley	Malaise	10.5 hours	32-25	0-5	0	
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera	Serfidae 1			Pinned	1	1021	1	9/11/2007	H. Kloeppe; A. Hadley	Malaise	10.5 hours	32-25	0-5	0	
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 3				Pinned	1	1022	2	9/11/2007	H. Kloeppe; A. Hadley	Malaise	10.5 hours	32-25	0-5	0	
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera	Serfidae 2			Pinned	1	1023	4	9/11/2007	H. Kloeppe; A. Hadley	Malaise	10.5 hours	32-25	0-5	0	
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 4				Pinned	1	1024	6	9/11/2007	H. Kloeppe; A. Hadley	Malaise	10.5 hours	32-25	0-5	0	
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Odonata 2				Pinned	1	1025	1	9/11/2007	H. Kloeppe; A. Hadley	Malaise	10.5 hours	32-25	0-5	0	
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Hymenoptera 2				Pinned	1	1026	5	9/11/2007	H. Kloeppe; A. Hadley	Malaise	10.5 hours	32-25	0-5	0	
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 5				Pinned	1	1027	2	9/11/2007	H. Kloeppe; A. Hadley	Malaise	10.5 hours	32-25	0-5	0	
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 6				Pinned	1	1028	7	9/11/2007	H. Kloeppe; A. Hadley	Malaise	10.5 hours	32-25	0-5	0	
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 7				None			28	9/11/2007	H. Kloeppe; A. Hadley	Malaise	10.5 hours	32-25	0-5	0	irresdescent green tiny
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 8				None			3	9/11/2007	H. Kloeppe; A. Hadley	Malaise	10.5 hours	32-25	0-5	0	black tiny
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 9				None			6	9/11/2007	H. Kloeppe; A. Hadley	Malaise	10.5 hours	32-25	0-5	0	tiny tiny black
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera	Chironomidae			None			16	9/11/2007	H. Kloeppe; A. Hadley	Malaise	10.5 hours	32-25	0-5	0	adult yellow tiny
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 10				None			1	9/11/2007	H. Kloeppe; A. Hadley	Malaise	10.5 hours	32-25	0-5	0	tiny white/yellow
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Diptera 1				Pinned	1	1119	2	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	30-38	0-10	0-75	
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Hymenoptera				Pinned	1	1132	1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	30-38	0-10	0-75	
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Diptera 2				None			4	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	30-38	0-10	0-75	dark spot on end of wing
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Diptera	Chironomidae			None			1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	30-38	0-10	0-75	
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Homoptera 1				None			1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	30-38	0-10	0-75	yellow
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Homoptera 2				None			1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	30-38	0-10	0-75	green
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Diptera 3				None			62	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	30-38	0-10	0-75	brown
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Lepidoptera 1				Envelope	3		3	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	654	30	0	0	white body; yellow wing
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Homoptera 3				Pinned	1	975	1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	654	30	0	0	red eye on clear wing

YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Arachnid 1				ETOH	1	990	1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	654	30	0	0	white spider
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Arachnid 2				ETOH	1	991	1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	654	30	0	0	
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera	Formicidae			ETOH	medium	1167	medium	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	28-38	0-5	0-75	small red ants
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 1				Pinned	1	1168	1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	28-38	0-5	0-75	small bee
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera 1				Pinned	1	1169	1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	28-38	0-5	0-75	small fly
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Homoptera 1				Pinned	1	1170	1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	28-38	0-5	0-75	small brown leaf hopper
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Homoptera 2				Pinned	1	1171	1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	28-38	0-5	0-75	small green leaf hopper
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Homoptera 3				Pinned	1	1172	1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	28-38	0-5	0-75	small tan leaf hopper
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 2				Pinned	1	1173	2	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	28-38	0-5	0-75	small wasp
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Coleoptera 1				Pinned	1	1174	33	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	28-38	0-5	0-75	small tan beetle
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera 2				None			3	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	28-38	0-5	0-75	small fly
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 3				Pinned	1	1175	1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	28-38	0-5	0-75	small wasp
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera 3				Pinned	1	1176	90	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	28-38	0-5	0-75	small green fly
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 4				None			1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	28-38	0-5	0-75	small black wasp
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera 4				Pinned	1	1178	2	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	28-38	0-5	0-75	tiny tan fly
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Homoptera 4				None			1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	28-38	0-5	0-75	small tan leaf hopper
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Orthoptera				Pinned	1	1407	1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	713	28	0	0	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Diptera	Asilidae			Pinned	1	1045	1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	29-34	0 to 3	0-20	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Diptera 1				None			super abundant	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	29-34	0 to 3	0-20	small black fly
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 1				Pinned	2	1046-1047	medium	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	29-34	0 to 3	0-20	small tan beetles
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 1				None			few	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	29-34	0 to 3	0-20	red ants
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 2				Pinned	2	1048-1049	few	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	29-34	0 to 3	0-20	small wasps
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 3				Pinned	2	1050-1051	few	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	29-34	0 to 3	0-20	small wasps
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Diptera 2				Pinned	1	1052	1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	29-34	0 to 3	0-20	med black fly

YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Diptera 3				Pinned	1	1053	1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	29-34	0 to 3	0-20	small green fly
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 1				None			2	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	29-34	0 to 3	0-20	small moth
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Diptera 4				Pinned	1	1054	1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	29-34	0 to 3	0-20	small black fly
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Diptera 5				Pinned	1	1055	1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	29-34	0 to 3	0-20	small black fly
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Diptera 6				Pinned	1	1056	1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	29-34	0 to 3	0-20	tan mosquito
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Diptera 7				Pinned	1	1057	1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	29-34	0 to 3	0-20	grey mosquito
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 4				None			37	9/12/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	754	34	5 to 10	0	clear wings with 1 black spot
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera	Scarabidae			Pinned	2	976-977	2	9/12/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	754	34	5 to 10	0	gold
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Homoptera 1				Pinned	1	978	1	9/12/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	754	34	5 to 10	0	H. green
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 5				Pinned	1	979	1	9/12/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	754	34	5 to 10	0	clear wings
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Mantidae				Pinned	1	980	1	9/12/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	754	34	5 to 10	0	brown
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 2				Pinned	1	981	23	9/12/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	754	34	5 to 10	0	gold outer wing/clear inner
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Orthoptera				1 Pinned; 4 envelope	5	982	1	9/12/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	754	34	5 to 10	0	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 3				Pinned	1	983-984	5	9/12/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	754	34	5 to 10	0	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Trichoptera				Pinned	1	985	1	9/12/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	754	34	5 to 10	0	sandy orange color
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 6				Pinned	1	986-987	6	9/12/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	754	34	5 to 10	0	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 3				Pinned	1	988	1	9/12/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	754	34	5 to 10	0	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Diptera 8				Pinned	1	989	1	9/12/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	754	34	5 to 10	0	metallic blue gnat
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Diptera 9				None			3	9/12/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	754	34	5 to 10	0	very small with green body
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 4				Envelope	1		1	9/12/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	754	34	5 to 10	0	brown with white stripes
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 5				Envelope	5		5	9/12/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	754	34	5 to 10	0	gold/black
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 6				Envelope	5		5	9/12/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	754	34	5 to 10	0	brown with black wing tips
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 7				Pinned	1	1111	1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	700	29	0-3	0	large bee
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 8				Pinned	1	1112	1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	700	29	0-3	0	small bee

YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 9				Pinned	1	1113	1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	700	29	0-3	0	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 10				Pinned	2	1114 and 1115	2	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	700	29	0-3	0	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 7				None			1	9/12/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	754	34	5 to 10	0	same as 1123
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Orthoptera 2				Pinned	2	1402	2	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	700	29	0-3	0	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Odonata 1				Pinned	1	1403	1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	700	29	0-3	0	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Odonata 2				Pinned	1	1406	1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	700	29	0-3	0	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Orthoptera 3				Pinned	1	1404	1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	700	29	0-3	0	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera	Pieridae	Pontia	protodice	Pinned	1	1301	1	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	915	24	0	0	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 1				Pinned	2	1302, 1303	2	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	915	24	0	0	irresdescent green; large
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Odonata	Gomphidae	Erpetogomphus	lampropeltus	Pinned	1	1304	1	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	915	24	0	0	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Odonata	Coengrionidae			Pinned	1	1305	1	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	915	24	0	0	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 1				None			11	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV light #2- do not use in analysis	1949	21	0	0	same as 880
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 2				None			1	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV light #2- do not use in analysis	1949	21	0	0	same as 892
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 3				None			2	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV light #2- do not use in analysis	1949	21	0	0	same as 1230
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 4				Pinned	1	1289	1	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV light #2- do not use in analysis	1949	21	0	0	small moth
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 2	Scarabidae			None			1	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV light #2- do not use in analysis	1949	21	0	0	June bug same as 1156
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 5				None			3	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV light #2- do not use in analysis	1949	21	0	0	Moth same as 1299
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera	Staphylinidae			None			2	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV light #2- do not use in analysis	1949	21	0	0	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 1				None			4	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV light #2- do not use in analysis	1949	21	0	0	hairy wasp same as 1221
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 6				None			3	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV light #2- do not use in analysis	1949	21	0	0	same as 1127
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 7				None			4	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV light #2- do not use in analysis	1949	21	0	0	same as 1234
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 8				None			3	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV light #2- do not use in analysis	1949	21	0	0	same as 1235
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 9				None			6	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV light #2- do not use in analysis	1949	21	0	0	tiny moth same as 1285
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Homoptera 1				None			4	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV light #2- do not use in analysis	1949	21	0	0	tiny tan leafhopper

YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Homoptera 2						None			1	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV light #2- do not use in analysis	1949	21	0	0	tiny green leafhopper
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 1						None			3	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV light #2- do not use in analysis	1949	21	0	0	gnats
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 2	Culicidae					None			1	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV light #2- do not use in analysis	1949	21	0	0	mosquito
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 2						None			1	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV light #2- do not use in analysis	1949	21	0	0	tiny bee
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 3						Pinned	2	1322, 1323	2	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-27	0	0	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 3						Pinned	1	1324	1	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-27	0	0	prey in mouth
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 4						Pinned	1	1325	1	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-27	0	0	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 4						None			17	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-27	0	0	same as 1288
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 10						None			1	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-27	0	0	same as 1214
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 5						ETOH	3	1327	3	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-27	0	0	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 5						Pinned	1	1326	1	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-27	0	0	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 6						Pinned	1	1328	2	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-27	0	0	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 7						Pinned	1	1329	4	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-27	0	0	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 8						None			abundant	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-27	0	0	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 9						None			medium	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-27	0	0	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 10						None			3	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-27	0	0	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 11						Pinned	2	130; 969	130	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Orthoptera 1						Pinned	1	971	1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Neuroptera 1						Pinned; envelope	1 pinned; 2 envelope	972	3	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Odonata 1						Envelope	2	973	2	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 12						Pinned; envelope	1 pinned; 3 envelope	974	4	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	green
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 13						None			8	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	same as 1122
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 14						None			3	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	same as 939
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 15						None			3	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	same as 939

YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 16						super abundant	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	about 2-3 mm	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 17						19	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	same as 1234	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 18				Pinned	1	1070	13	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 19				None			3	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	same as 1228
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 20				None			3	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	same as 1229
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 21				None			3	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	same as 1233
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 22				None			14	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	black and white with pink belly
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 23				None			5	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	same as 842
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 24				None			3	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	same as 1230
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera	Scarabidae 2			Pinned	1	1201	10	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	black
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera	Scarabidae 3			Pinned	1	1202	4	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	gold
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 2				Pinned	1	1203	1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera	Scarabidae 4			Pinned	1	1204	6	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera	Curculionidae			Pinned	1	1205	21	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 3				Pinned	1	1206	2	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 4				Pinned	1	1207	8	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera	Scarabidae 5			None			abundant	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera	Scarabidae 6			None			20	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 5				None			40	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Nuroptera	Myrmelionidae			Pinned	1	1208	2	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 6				Pinned	1	1209	4	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 7				Pinned	1	1210	5	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 8				Pinned	1	1211	3	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 9				None			10	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	

YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 10					None		medium	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75		
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 11					None		few	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75		
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Homoptera 3					ETOH	5	1212	5	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	yellow
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Homoptera 4					Pinned	1	1213	medium	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 25					None		20		9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Homoptera 5					Pinned	1	1214	10	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	clear wings
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 12					None		1		9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	very small red body
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 6					Pinned	1	1215	2	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 11					Pinned	1	1216	2	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 13					None		2		9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	small metallic blue body
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Isoptera					Pinned	1	1217	1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Homoptera 6					None		1		9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	very small green leaf hopper
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 14					ETOH	1	1218	1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	green feathery antennae
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 26					Pinned	1	1280	1	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	green with clear wings
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 27					Pinned	1	1281	6	9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 28					None		1		9/13/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1949	35	5 to 10	75	same as 1123
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Odonata 1					Pinned	1	1263	1	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	800	19	0	0	
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Odonata 2					Pinned	1	1264	1	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	800	19	0	0	
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Hymenoptera 1					Pinned	2	1265, 1266	2	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	800	19	0	0	found in screwbean pod
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Coleoptera	Anthribidae				ETOH	3	1267	3	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	800	19	0	0	adult/larvae and pupa
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Hymenoptera 2					ETOH	3	1268	3	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	800	19	0	0	
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Odonata 3					Envelope	3	1269	3	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	800	19	0	0	
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Odonata 4					Pinned	1	1270	1	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	800	19	0	0	
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 1					None			super abundant	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-22	0	0	green gnats

YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera 2								None			18	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-22	0	0	same as 1015; black fly
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Hymenoptera 3								None			1	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-22	0	0	same as 1026; small wasp
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Lepidoptera 1								None			1	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-22	0	0	same as 1237
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera 3								Pinned	1	1361	2	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-22	0	0	orange fly
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera 4								None			3	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-22	0	0	same as 1257; green fly
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera 5								Pinned	1	1362	1	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-22	0	0	striped fly
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Coleoptera 1								None			4	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-22	0	0	small tan beetles
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera 6								None			5	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-22	0	0	gnats
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera 7								Pinned	1	1363	1	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-22	0	0	small fly
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera 8								Pinned	1	1364	1	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-22	0	0	small striped fly
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Hymenoptera 4								Pinned	1	1365	1	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-22	0	0	tiny wasp
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Odonata 1								None			5	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	758	19-23	0	0	female damselflies
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Odonata 2								Envelope	1	1271	1	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	758	19-23	0	0	
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera	Apidae							Pinned	2	1272; 1273	2	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	758	19-23	0	0	
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Coleoptera 1								Pinned	1	1274	1	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	758	19-23	0	0	
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera 1								ETOH	5	1275	5	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	758	19-23	0	0	
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera 2								ETOH	5	1276	5	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	758	19-23	0	0	
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 1								Pinned	2	1277; 1278	2	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	758	19-23	0	0	
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Lepidoptera 1								None			1	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	758	19-23	0	0	same as 1187
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Lepidoptera 2								Pinned	2	1279; 1316	2	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	758	19-23	0	0	
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera 3								None			10	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	758	19-23	0	0	1mm
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Lepidoptera	Lycaenidae	Brephidium	exile					Pinned	1	1315	1	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	758	19-23	0	0	
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Lepidoptera	Hesperiidae							Pinned	1	1316	1	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	758	19-23	0	0	
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 2								None			super abundant	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-21	0-Jan	0	small green flies

YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Coleoptera 2							23	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-21	0-Jan	0	same as 1131; small tan beetles
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Lepidoptera 1							1	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-21	0-Jan	0	same as 1237
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Homoptera 1							1	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-21	0-Jan	0	leaf hopper
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 3							5	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-21	0-Jan	0	same as 1015; black flies
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Lepidoptera 2			Pinned	1	1285	4		9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-21	0-Jan	0	tiny moths
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera 4			Pinned	1	1286	1		9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-21	0-Jan	0	small flying ant
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera 5			Pinned	1	1287	1		9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-21	0-Jan	0	small wasp
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 4	Culicidae		Pinned	1	1288	2		9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-21	0-Jan	0	mosquito
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 5							1	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-21	0-Jan	0	same as 948
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 6							1	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-21	0-Jan	0	same as 930
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Homoptera 2							1	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-21	0-Jan	0	same as 1086; leafhopper
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 7							12	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-21	0-Jan	0	tiny flies
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 8							9	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-21	0-Jan	0	tiny black flies
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 9							25	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-21	0-Jan	0	tiny gnats
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera 6							2	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-21	0-Jan	0	tiny wasps
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera 7							1	9/17/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11 hours	19-21	0-Jan	0	tiny flying ant
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 1			Pinned	1	1151	1		9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera	Formicidae		Pinned	1	1152	13		9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	flying ant
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 1			Pinned	1	1153	6		9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	small yellow red
YEW	Control Riparian 2	Arthropoda	Insecta	Homoptera 1			Pinned	1	1154	4		9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	yellow leafhopper
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 2			Pinned	1	1155	7		9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	long brown beetle
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera	Scarabidae		Pinned	1	1156	1		9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	
YEW	Control Riparian 2	Arthropoda	Insecta	Homoptera 2			Pinned	1	1157	1		9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	green leaf hopper
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 3			Pinned	1	1219	3		9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	

YEW	Control Riparian 2	Arthropoda	Insecta	Neuroptera	Myrmeloniidae			Pinned	1	1220	1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 2				Pinned	1	1221	7	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 3				Pinned	1	1222	19	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 4				Pinned	1	1223	3	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 5				Pinned	1	1224	7	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 6				Pinned	1	1225	2	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	
YEW	Control Riparian 2	Arthropoda	Insecta	Trichoptera				ETOH	4	1226	4	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	
YEW	Control Riparian 2	Arthropoda	Insecta	Homoptera 3				None			5	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	green leaf hopper
YEW	Control Riparian 2	Arthropoda	Insecta	Isoptera				ETOH	10	1227	10	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	termite
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 7				None			37	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	tiny black
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 8				None			few	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	tiny brown
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 9				None			8	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	tiny round black
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera	Staphylinidae			None			18	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 1				None			11	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	tiny grey moths
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 10				None			super abundant	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	tiny tiny brown beetles
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 2				None			16	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	mottled tiny beetles
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 5				None			15	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	tiny wasps
YEW	Control Riparian 2	Arthropoda	Insecta	Homoptera 4				None			3	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	tiny yellow leafhopper
YEW	Control Riparian 2	Arthropoda	Insecta	Diptera 1				None			1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	tiny fly
YEW	Control Riparian 2	Arthropoda	Insecta	Homoptera 5				None			4	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	tiny clear wing leafhopper
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 11				None			1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	tiny grey beetles
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 12				None			1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	yellow beetle
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 6				None			1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	tiny yellow wasp
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 3				None			1	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	tiny white moth

YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 4					None		7	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	same as 1123
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 5					None		40	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 6					Pinned	1	1228	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 7					Pinned	1	1229	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 8					Pinned	1	1230	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 9					Pinned	1	1231	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 10					Pinned	1	1232	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 11					Pinned	1	1233	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 12					Pinned	1	1234	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 13					Pinned	1	1235	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 14					Pinned	1	1236	9/14/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1950	34	5	10	
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 15					None			9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	708	28	0	1	same as 1232
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 16					None			9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	708	28	0	1	same as 1246
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 7					ETOH	9	1259	9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	708	28	0	1	red ants
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 8					ETOH	6	1260	9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	708	28	0	1	small red ants
YEW	Control Riparian 2	Arthropoda	Insecta	Diptera 2					None			9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	28-32	0-5	1 to 5	small blue body
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 9					None			9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	28-32	0-5	1 to 5	
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 10					None			9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	28-32	0-5	1 to 5	
YEW	Control Riparian 4	Arthropoda	Insecta	Odonata 1					Envelope	2	1197	9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	712	28	0-5	0	
YEW	Control Riparian 4	Arthropoda	Insecta	Hymenoptera	Formicidae				ETOH	2	1198	9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	712	28	0-5	0	
YEW	Control Riparian 4	Arthropoda	Insecta	Hymenoptera 2					Pinned	1	1199	9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	712	28	0-5	0	on salt cedar bloom
YEW	Control Riparian 4	Arthropoda	Insecta	Hymenoptera 3					Pinned	1	1200	9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	712	28	0-5	0	
YEW	Control Riparian 4	Arthropoda	Insecta	Diptera 1					None			9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5 hours	28-32	0-5	0-5	
YEW	Control Riparian 4	Arthropoda	Insecta	Diptera 2					None			9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5 hours	28-32	0-5	0-5	

YEW	Control Riparian 4	Arthropoda	Insecta	Diptera 3					None		3	9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5 hours	28-32	0-5	0-5	
YEW	Control Riparian 4	Arthropoda	Insecta	Hymenoptera 4					Pinned	1	1317	9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5 hours	28-32	0-5	0-5	
YEW	Control Riparian 5	Arthropoda	Insecta	Lepidoptera 1					None	1		9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	705	26-34	0-1	0	small brown butterfly
YEW	Control Riparian 5	Arthropoda	Insecta	Odonata 1					Pinned	1	1245	9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	705	26-34	0-1	0	green/brown damselfly
YEW	Control Riparian 5	Arthropoda	Insecta	Lepidoptera 2					None		1232	9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	705	26-34	0-1	0	moth same as 1232
YEW	Control Riparian 5	Arthropoda	Insecta	Lepidoptera 3					None		1229	9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	705	26-34	0-1	0	same as 1229 (?)
YEW	Control Riparian 5	Arthropoda	Insecta	Lepidoptera 4					None			9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	705	26-34	0-1	0	same as 768
YEW	Control Riparian 5	Arthropoda	Insecta	Orthoptera					Pinned	2	1247- 1248	9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	705	26-34	0-1	0	grasshopper
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 1					Pinned	1	1249	9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	705	26-34	0-1	0	large black fly
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 2					None			9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	705	26-34	0-1	0	small green flies
YEW	Control Riparian 5	Arthropoda	Insecta	Odonata 2					Pinned	1	1250	9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	705	26-34	0-1	0	Dragon fly
YEW	Control Riparian 5	Arthropoda	Insecta	Coleoptera	Curculionidae				None			9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	26-32	0-5	0-5	grey small weevils
YEW	Control Riparian 5	Arthropoda	Insecta	Hymenoptera 1					None			9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	26-32	0-5	0-5	small thread wasted wasps
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 3					None			9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	26-32	0-5	0-5	wider ab
YEW	Control Riparian 5	Arthropoda	Insecta	Homoptera					None			9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	26-32	0-5	0-5	leafhopper
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 4					None			9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	26-32	0-5	0-5	tiny black fly
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera	Chironomidae 1				None			9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	26-32	0-5	0-5	brown midge
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera	Chironomidae 2				None			9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	26-32	0-5	0-5	green midge
YEW	Control Riparian 5	Arthropoda	Insecta	Coleoptera 1					None			9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	26-32	0-5	0-5	tiny black
YEW	Control Riparian 5	Arthropoda	Insecta	Hymenoptera	Formicidae				None			9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	26-32	0-5	0-5	black ab; red head
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 5					None		super abundant	9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	26-32	0-5	0-5	red fly
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 6					None			9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	26-32	0-5	0-5	iridescent fly
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 7					Pinned	1	1306	9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	26-32	0-5	0-5	red/yellow fly
YEW	Control Riparian 5	Arthropoda	Insecta	Hymenoptera 2					Pinned	1	1307	9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	26-32	0-5	0-5	small bee

YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 8				Pinned	1	1308	1	9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	26-32	0-5	0-5	iridescent fly
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 9				Pinned	1	1309	1	9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	26-32	0-5	0-5	
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 10				Pinned	1	1310	1	9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	26-32	0-5	0-5	
YEW	Control Riparian 5	Arthropoda	Insecta	Hymenoptera 3				Pinned	1	1311	1	9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	26-32	0-5	0-5	small bee
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 11				Pinned	1	1312	1	9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	26-32	0-5	0-5	
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 12				Pinned	1	1313	1	9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	26-32	0-5	0-5	
YEW	Control Riparian 5	Arthropoda	Insecta	Hymenoptera 3				Pinned	1	1314	1	9/16/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	26-32	0-5	0-5	
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Lepidoptera 1				None			1	9/10/2007	H. Kloeppe; A.Hadley	Spot	1009	32	0	0	Buckeye
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 1	Mutillidae			Pinned	1	861	1	9/10/2007	H. Kloeppe; A.Hadley	Spot	1009	32	0	0	velvet ant-orange black
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 2				Pinned	1	870	1	9/10/2007	H. Kloeppe; A.Hadley	Spot	1009	32	0	0	
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Orthoptera 1				Pinned	2	873 and 874	2	9/10/2007	H. Kloeppe; A.Hadley	Spot	1009	32	0	0	bright green
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 3				Pinned	1	881	1	9/10/2007	H. Kloeppe; A.Hadley	Spot	1009	32	0	0	
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera	Apidae			Pinned	1	875	1	9/10/2007	H. Kloeppe; A.Hadley	Spot	1009	32	0	0	
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Diptera 1				Pinned	1	877	1	9/10/2007	H. Kloeppe; A.Hadley	Spot	1009	32	0	0	
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 4				Pinned	1	883	1	9/10/2007	H. Kloeppe; A.Hadley	Spot	1009	32	0	0	
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Lepidoptera 2				Pinned	1	910	1	9/10/2007	H. Kloeppe; A.Hadley	Spot	1009	32	0	0	
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Diptera 2				None			medium	9/10/2007	H. Kloeppe; A.Hadley	Malaise	12 hours	24-30	25-0	0	tiny iridescent green
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Diptera	Serfidae			Pinned	1	911	1	9/10/2007	H. Kloeppe; A.Hadley	Malaise	12 hours	24-30	25-0	0	
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Diptera	Moscidae			Pinned	2	912, 913	2	9/10/2007	H. Kloeppe; A.Hadley	Malaise	12 hours	24-30	25-0	0	
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 5				Pinned	1	914	1	9/10/2007	H. Kloeppe; A.Hadley	Malaise	12 hours	24-30	25-0	0	all black wasp
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 6				Pinned	1	915	4	9/10/2007	H. Kloeppe; A.Hadley	Malaise	12 hours	24-30	25-0	0	
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Diptera 3				None			3	9/10/2007	H. Kloeppe; A.Hadley	Malaise	12 hours	24-30	25-0	0	
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 7				Pinned	1	916	2	9/10/2007	H. Kloeppe; A.Hadley	Malaise	12 hours	24-30	25-0	0	
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Diptera 4				None			2	9/10/2007	H. Kloeppe; A.Hadley	Malaise	12 hours	24-30	25-0	0	

BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Diptera 5								2	9/10/2007	H. Kloepfel; A.Hadley	Malaise	12 hours	24-30	25-0	0	black fly
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 8				Pinned	1	917		1	9/10/2007	H. Kloepfel; A.Hadley	Malaise	12 hours	24-30	25-0	0	
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Diptera 6								1	9/10/2007	H. Kloepfel; A.Hadley	Malaise	12 hours	24-30	25-0	0	orange/yellow
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 9								1	9/10/2007	H. Kloepfel; A.Hadley	Malaise	12 hours	24-30	25-0	0	small wasp red abdomen
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Diptera 7								2	9/10/2007	H. Kloepfel; A.Hadley	Malaise	12 hours	24-30	25-0	0	larger iridescent green
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 10								1	9/10/2007	H. Kloepfel; A.Hadley	Malaise	12 hours	24-30	25-0	0	tiny black
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Diptera 8								17	9/10/2007	H. Kloepfel; A.Hadley	Malaise	12 hours	24-30	25-0	0	yellow body and legs
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 11								1	9/10/2007	H. Kloepfel; A.Hadley	Malaise	12 hours	24-30	25-0	0	black pointed ab
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Lepidoptera 2								1	9/10/2007	H. Kloepfel; A.Hadley	Malaise	12 hours	24-30	25-0	0	tiny yellow moths
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Diptera 9								few	9/10/2007	H. Kloepfel; A.Hadley	Malaise	12 hours	24-30	25-0	0	tiny black fly
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Odonata 1								1	9/10/2007	H. Kloepfel; A.Hadley	Spot	1009	32	0	0	damselfly
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Odonata 2	Libellulidae	Brechmorhoga	mendax		Pinned	2	993, 994	2	9/10/2007	H. Kloepfel; A.Hadley	Spot	1009	32	0	0	dragonfly
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Odonata 3					Pinned	1	995	1	9/10/2007	H. Kloepfel; A.Hadley	Spot	1009	32	0	0	red tip of abdomen
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Odonata 4	Calopterygidae	Hetaerina	americana		Pinned, envelope	7	996-999 ; 1002	7	9/10/2007	H. Kloepfel; A.Hadley	Spot	1009	32	0	0	American ruby spot
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Odonata 5								1	9/10/2007	H. Kloepfel; A.Hadley	Spot	1009	32	0	0	Black abdomen
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Odonata 6								1	9/10/2007	H. Kloepfel; A.Hadley	Spot	1009	32	0	0	blue damselfly
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Diptera 10								1	9/10/2007	H. Kloepfel; A.Hadley	Spot	1009	32	0	0	small black fly
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Odonata 7								1	9/10/2007	H. Kloepfel; A.Hadley	Spot	1009	32	0	0	blue damselfly
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Odonata 8								1	9/10/2007	H. Kloepfel; A.Hadley	Spot	1009	32	0	0	brown damsel
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Lepidoptera	Riodinidae	Apodemia	palmeri		Pinned	1	1007	1	9/10/2007	H. Kloepfel; A.Hadley	Spot	1009	32	0	0	
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Lepidoptera	Hesperiidae	Hylephila	phyleus		Pinned	2	1008-1009	2	9/10/2007	H. Kloepfel; A.Hadley	Spot	1009	32	0	0	
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Lepidoptera	Hesperiidae				Pinned	1	1010	1	9/10/2007	H. Kloepfel; A.Hadley	Spot	1009	32	0	0	
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Lepidoptera	Pieridae	Eurema	nicippe		Pinned	1	1011	1	9/10/2007	H. Kloepfel; A.Hadley	Spot	1009	32	0	0	
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Lepidoptera	Lycaenidae	Calephelis	nemesis		Pinned	1	1012	1	9/10/2007	H. Kloepfel; A.Hadley	Spot	1009	32	0	0	

BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Lepidoptera	Lycaenidae	Leptotes	marina	Pinned	1	1013	1	9/10/2007	H. Kloepffel; A.Hadley	Spot	1009	32	0	0	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera	Scarabidae			Pinned	1	864	1	9/9/2007	H. Kloepffel; A.Hadley	UV Light	2054	28	2	0	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Orthoptera				Pinned	1	865	1	9/9/2007	H. Kloepffel; A.Hadley	UV Light	2054	28	2	0	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera	Asilidae			Pinned	1	866	1	9/10/2007	H. Kloepffel; A.Hadley	Spot	910	33	0	0	
BWNWR	Reference Riparian Cott 4	Arthropoda	Arachnida 1					ETOH	1	862	1	9/10/2007	H. Kloepffel; A.Hadley	Spot	910	33	0	0	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 1				ETOH	1	863	3	9/10/2007	H. Kloepffel; A.Hadley	Spot	910	33	0	0	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 1				Pinned	1	879	1	9/9/2007	H. Kloepffel; A.Hadley	UV Light	2054	28	2	0	large hawk moth
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 2				Pinned	3	883-884, 872	3	9/9/2007	H. Kloepffel; A.Hadley	UV Light	2054	28	2	0	sphinx moth
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 3				Pinned	2	886, 871	11	9/9/2007	H. Kloepffel; A.Hadley	UV Light	2054	28	2	0	small moth with wavy lines
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Homoptera 1				None			few	9/9/2007	H. Kloepffel; A.Hadley	UV Light	2054	28	2	0	leafhopper green
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera 1				None			medium	9/9/2007	H. Kloepffel; A.Hadley	UV Light	2054	28	2	0	tiny brown beetles
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 1				None			few	9/9/2007	H. Kloepffel; A.Hadley	UV Light	2054	28	2	0	tiny black flies
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 2				None			few	9/9/2007	H. Kloepffel; A.Hadley	UV Light	2054	28	2	0	tiny wasps
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 4				Pinned	3	896, 887- 889	34	9/9/2007	H. Kloepffel; A.Hadley	UV Light	2054	28	2	0	goldish brown black striped withngs large spot on underwing
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 5				Pinned	3	890-892	super abundant	9/9/2007	H. Kloepffel; A.Hadley	UV Light	2054	28	2	0	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 6				Pinned	2	897, 893- 894	6	9/9/2007	H. Kloepffel; A.Hadley	UV Light	2054	28	2	0	white
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 7				Pinned	1	895	1	9/9/2007	H. Kloepffel; A.Hadley	UV Light	2054	28	2	0	large; gold/white
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 8				Pinned	2	1265-1296	super abundant	9/9/2007	H. Kloepffel; A.Hadley	UV Light	2054	28	2	0	small white with gold on end of wings
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 9				Pinned	2	1297, 1298	medium	9/9/2007	H. Kloepffel; A.Hadley	UV Light	2054	28	2	0	small gold
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Trichoptera				ETOH	8	898	8	9/9/2007	H. Kloepffel; A.Hadley	UV Light	2054	28	2	0	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera 1				Pinned	3	901-902	26	9/9/2007	H. Kloepffel; A.Hadley	UV Light	2054	28	2	0	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera	Scarabidae 2			Pinned	1	899	2	9/9/2007	H. Kloepffel; A.Hadley	UV Light	2054	28	2	0	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera	Scarabidae 3			Pinned	1	900	1	9/9/2007	H. Kloepffel; A.Hadley	UV Light	2054	28	2	0	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Mantidae				ETOH	1	904	1	9/9/2007	H. Kloepffel; A.Hadley	UV Light	2054	28	2	0	

BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coloeptera 2				Pinned	1	903	1	9/9/2007	H. Kloepffel; A.Hadley	UV Light	2054	28	2	0	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coloeptera 3				Pinned	1	905	6	9/9/2007	H. Kloepffel; A.Hadley	UV Light	2054	28	2	0	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 2				Pinned	1	906	2	9/9/2007	H. Kloepffel; A.Hadley	UV Light	2054	28	2	0	thread wasted
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Homoptera 2				Pinned	1	907	3	9/9/2007	H. Kloepffel; A.Hadley	UV Light	2054	28	2	0	leaf hopper
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 3				Pinned	1	908	6	9/9/2007	H. Kloepffel; A.Hadley	UV Light	2054	28	2	0	red wasp
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Nueroptera				Pinned	1	909	1	9/9/2007	H. Kloepffel; A.Hadley	UV Light	2054	28	2	0	lacewing
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera 4				None			medium	9/9/2007	H. Kloepffel; A.Hadley	UV Light	2054	28	2	0	tiny black round
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 2				None			3	9/9/2007	H. Kloepffel; A.Hadley	UV Light	2054	28	2	0	small black fly
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 10				None			2	9/9/2007	H. Kloepffel; A.Hadley	UV Light	2054	28	2	0	tiny moth
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 3				None			4	9/9/2007	H. Kloepffel; A.Hadley	UV Light	2054	28	2	0	tiny black fly
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 11				Pinned	1	1299	13	9/9/2007	H. Kloepffel; A.Hadley	UV Light	2054	28	2	0	orangish moth
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 12				Pinned	1	1300	6	9/9/2007	H. Kloepffel; A.Hadley	UV Light	2054	28	2	0	brown with dark band on end of wing
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 13				Envelope	1		1	9/9/2007	H. Kloepffel; A.Hadley	UV Light	2054	28	2	0	small white pink with feathered antennae
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 14				Envelope	2		2	9/9/2007	H. Kloepffel; A.Hadley	UV Light	2054	28	2	0	white with small black dots on end of wing
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 15				Envelope	2		2	9/9/2007	H. Kloepffel; A.Hadley	UV Light	2054	28	2	0	all white
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 16				Envelope	4		4	9/9/2007	H. Kloepffel; A.Hadley	UV Light	2054	28	2	0	brown medium
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 4				Pinned	1	1140	3	9/10/2007	H. Kloepffel; A.Hadley	Malaise	11.5 hours	27-30	0	20-0	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera	Serfidae			Pinned	1	1141	1	9/10/2007	H. Kloepffel; A.Hadley	Malaise	11.5 hours	27-30	0	20-0	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 5				Pinned	1	1142	1	9/10/2007	H. Kloepffel; A.Hadley	Malaise	11.5 hours	27-30	0	20-0	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 6				Pinned	1	1143	1	9/10/2007	H. Kloepffel; A.Hadley	Malaise	11.5 hours	27-30	0	20-0	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 7				Pinned	1	1144	1	9/10/2007	H. Kloepffel; A.Hadley	Malaise	11.5 hours	27-30	0	20-0	black fly
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 4				Pinned	1	1145	22	9/10/2007	H. Kloepffel; A.Hadley	Malaise	11.5 hours	27-30	0	20-0	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 8				Pinned	1	1146	2	9/10/2007	H. Kloepffel; A.Hadley	Malaise	11.5 hours	27-30	0	20-0	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 9				Pinned	1	1147	3	9/10/2007	H. Kloepffel; A.Hadley	Malaise	11.5 hours	27-30	0	20-0	red ab

BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 10				Pinned	1	1148	18	9/10/2007	H. Kloepfel; A.Hadley	Malaise	11.5 hours	27-30	0	20-0	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 11				Pinned	1	1149	2	9/10/2007	H. Kloepfel; A.Hadley	Malaise	11.5 hours	27-30	0	20-0	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 5				Pinned	1	1150	31	9/10/2007	H. Kloepfel; A.Hadley	Malaise	11.5 hours	27-30	0	20-0	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 12				None			22	9/10/2007	H. Kloepfel; A.Hadley	Malaise	11.5 hours	27-30	0	20-0	small yellow ab with long legs
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 13				None			1	9/10/2007	H. Kloepfel; A.Hadley	Malaise	11.5 hours	27-30	0	20-0	tiny iridescent green pointed ab
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 14				None			1	9/10/2007	H. Kloepfel; A.Hadley	Malaise	11.5 hours	27-30	0	20-0	black pointed ab spots on wing
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 15				None			69	9/10/2007	H. Kloepfel; A.Hadley	Malaise	11.5 hours	27-30	0	20-0	tiny iridescent
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 16				None			1	9/10/2007	H. Kloepfel; A.Hadley	Malaise	11.5 hours	27-30	0	20-0	tiny yellow
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Homptera 2				None			1	9/10/2007	H. Kloepfel; A.Hadley	Malaise	11.5 hours	27-30	0	20-0	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Odonata	Libellulidae	Brechmorhog a	mendax	Pinned	1	1014	1	9/10/2007	H. Kloepfel; A.Hadley	Spot	910	33	0	0	
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera	Apidae			Pinned	2	868, 867	2	9/10/2007	H. Kloepfel; A.Hadley	Spot	744	26	0	10	
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 1				Pinned	1	869	1	9/10/2007	H. Kloepfel; A.Hadley	Spot	744	26	0	10	
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 2				ETOH	1	880	1	9/10/2007	H. Kloepfel; A.Hadley	Spot	744	26	0	10	
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 1				Pinned	1	878	1	9/10/2007	H. Kloepfel; A.Hadley	Spot	744	26	0	10	
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 3				Pinned	1	920	1	9/10/2007	H. Kloepfel; A.Hadley	Malaise	11hr 20min	26-26	0	20-0	
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 4				Pinned	2	918, 919	9	9/10/2007	H. Kloepfel; A.Hadley	Malaise	11hr 20min	26-26	0	20-0	
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 2				Pinned	1	921	12	9/10/2007	H. Kloepfel; A.Hadley	Malaise	11hr 20min	26-26	0	20-0	
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 3				Pinned	1	922	7	9/10/2007	H. Kloepfel; A.Hadley	Malaise	11hr 20min	26-26	0	20-0	
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera	Serfidae			Pinned	1	923	1	9/10/2007	H. Kloepfel; A.Hadley	Malaise	11hr 20min	26-26	0	20-0	
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 5				None			4	9/10/2007	H. Kloepfel; A.Hadley	Malaise	11hr 20min	26-26	0	20-0	iridescent green; spotted wings
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 6				None			medium	9/10/2007	H. Kloepfel; A.Hadley	Malaise	11hr 20min	26-26	0	20-0	tiny iridescent green
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 7				Pinned	1	924	6	9/10/2007	H. Kloepfel; A.Hadley	Malaise	11hr 20min	26-26	0	20-0	
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 8				None			42	9/10/2007	H. Kloepfel; A.Hadley	Malaise	11hr 20min	26-26	0	20-0	tiny flies w/yellow legs
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 4				None			1	9/10/2007	H. Kloepfel; A.Hadley	Malaise	11hr 20min	26-26	0	20-0	reddish abdomen

BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 9					None		3	9/10/2007	H. Kloepfel; A.Hadley	Malaise	11hr 20min	26-26	0	20-0	tiny black flies	
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 10					Pinned	1	929	7	9/10/2007	H. Kloepfel; A.Hadley	Malaise	11hr 20min	26-26	0	20-0	
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Trichoptera					None			1	9/10/2007	H. Kloepfel; A.Hadley	Malaise	11hr 20min	26-26	0	20-0	tiny
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 11					None			1	9/10/2007	H. Kloepfel; A.Hadley	Malaise	11hr 20min	26-26	0	20-0	yellow
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 12					None			1	9/10/2007	H. Kloepfel; A.Hadley	Malaise	11hr 20min	26-26	0	20-0	yellow green tiny
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 13					None			3	9/10/2007	H. Kloepfel; A.Hadley	Malaise	11hr 20min	26-26	0	20-0	tiny black flies
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 14					Pinned	1	930	1	9/10/2007	H. Kloepfel; A.Hadley	Malaise	11hr 20min	26-26	0	20-0	
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 15					Pinned	1	931	1	9/10/2007	H. Kloepfel; A.Hadley	Malaise	11hr 20min	26-26	0	20-0	
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Odonata 1	Libellulidae	Brechmorhoga	mendax		Pinned	2	1005, 1006	2	9/10/2007	H. Kloepfel; A.Hadley	Spot	744	26	0	10	
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Odonata 2					Pinned	1	1014	1	9/10/2007	H. Kloepfel; A.Hadley	Spot	744	26	0	10	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 1					Pinned	2	1071, 1073	2	9/15/2007	H. Kloepfel; M. Winterowd; K. Conrad	UV Light	1935	30	5	30	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 2					Pinned	1	1072	1	9/15/2007	H. Kloepfel; M. Winterowd; K. Conrad	UV Light	1935	30	5	30	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 3					Pinned	1	1074	4	9/15/2007	H. Kloepfel; M. Winterowd; K. Conrad	UV Light	1935	30	5	30	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 4					Pinned	1	1075	3	9/15/2007	H. Kloepfel; M. Winterowd; K. Conrad	UV Light	1935	30	5	30	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 5					Pinned	1	1076	18	9/15/2007	H. Kloepfel; M. Winterowd; K. Conrad	UV Light	1935	30	5	30	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 6					Pinned	1	1077	39	9/15/2007	H. Kloepfel; M. Winterowd; K. Conrad	UV Light	1935	30	5	30	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 7					Pinned	1	1078	41	9/15/2007	H. Kloepfel; M. Winterowd; K. Conrad	UV Light	1935	30	5	30	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera	Scarabidae 1				Pinned	1	1079	1	9/15/2007	H. Kloepfel; M. Winterowd; K. Conrad	UV Light	1935	30	5	30	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 1					Pinned	1	1080	1	9/15/2007	H. Kloepfel; M. Winterowd; K. Conrad	UV Light	1935	30	5	30	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera	Culicidae				Pinned	3	1081-1083	5	9/15/2007	H. Kloepfel; M. Winterowd; K. Conrad	UV Light	1935	30	5	30	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Neuroptera					Pinned	1	1084	3	9/15/2007	H. Kloepfel; M. Winterowd; K. Conrad	UV Light	1935	30	5	30	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera 1					Pinned	1	1085	4	9/15/2007	H. Kloepfel; M. Winterowd; K. Conrad	UV Light	1935	30	5	30	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Homoptera 1					Pinned	1	1086	2	9/15/2007	H. Kloepfel; M. Winterowd; K. Conrad	UV Light	1935	30	5	30	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Homoptera 2					Pinned	1	1087	4	9/15/2007	H. Kloepfel; M. Winterowd; K. Conrad	UV Light	1935	30	5	30	

YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 2				Pinned	1	1088	2	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1935	30	5	30	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 8				None			98	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1935	30	5	30	same as 940
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 3				None			1	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1935	30	5	30	small wasp
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera	Staphylinidae			None			16	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1935	30	5	30	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 1				None			26	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1935	30	5	30	tiny flies
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 2				None			4	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1935	30	5	30	tiny yellow flies
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 3				None			6	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1935	30	5	30	tiny black with pointed ab
YEW	Adjacent Ag 1	Arthropoda	Insecta	Homoptera 3				None			8	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1935	30	5	30	tiny brown leaf hopper
YEW	Adjacent Ag 1	Arthropoda	Insecta	Homoptera 4				None			3	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1935	30	5	30	beige leaf hopper
YEW	Adjacent Ag 1	Arthropoda	Insecta	Homoptera 5				None			1	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1935	30	5	30	tiny green
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 4				None			2	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1935	30	5	30	tiny wasp
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera	Chironomidae			None			15	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1935	30	5	30	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Trichoptera				ETOH	5	1090	5	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1935	30	5	30	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera	Scarabidae 2			Pinned	1	1089	1	9/15/2007	H. Kloeppe; M. Winterowd; K. Conrad	UV Light	1935	30	5	30	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Homoptera 6				Pinned	1	1341	1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	838	32	0	0	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 9				None			1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	20-28	0-1	0	same as 1234
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 5				Pinned	1	1342	1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	838	32	0	0	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Orthoptera 1				Pinned	1	1343	1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	838	32	0	0	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Homoptera 7				Pinned	1	1344	3	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	838	32	0	0	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 10				None			3	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	838	32	0	0	same as 892
YEW	Adjacent Ag 1	Arthropoda	Insecta	Odonata 1				Envelope	1	1345	1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	838	32	0	0	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 4				None			1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	838	32	0	0	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Homoptera 8				None			1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	838	32	0	0	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Homoptera 9				None			1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	838	32	0	0	

YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 6				Pinned	1	1350	3	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	838	32	0	0	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Orthoptera 2				Pinned	1	1351	1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	838	32	0	0	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera 2				Pinned	1	1352	6	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	838	32	0	0	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Homoptera 10				Pinned	1	1353	3	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	838	32	0	0	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 11				None			1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	838	32	0	0	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 7				Pinned	1	1354	1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	838	32	0	0	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 8				Pinned	1	1355	1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	838	32	0	0	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera 3				Pinned	1	1356	1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	838	32	0	0	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 12				Pinned	1	1357	1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	838	32	0	0	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera 4				Pinned	1	1358	1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	838	32	0	0	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Homoptera 11				Pinned	1	1359	1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	838	32	0	0	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Odonata 2				Envelope	1	1360	1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	838	32	0	0	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Homoptera 12				None			3	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	838	32	0	0	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 5				Pinned	1	1366	6	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	20-28	0-1	0	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera	Moscidae			None			12	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	20-28	0-1	0	medium size
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 6				None			30	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	20-28	0-1	0	small to medium
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 7				None			21	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	20-28	0-1	0	small fly
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 13				None			2	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	20-28	0-1	0	same as 1229
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 9				None			2	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	20-28	0-1	0	same as 1173
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 10				None			8	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	20-28	0-1	0	same as 1050
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 8				Pinned	1	1367	1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	20-28	0-1	0	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 11				Pinned	1	1368	1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	20-28	0-1	0	black wasp
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 9				Pinned	1	1369	1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	20-28	0-1	0	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera	Serfidae			None			2	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	20-28	0-1	0	small

YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 12				Pinned	1	1370	1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	20-28	0-1	0	red wasp
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 13				Pinned	1	1371	27	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	20-28	0-1	0	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 14				Pinned	1	1372	1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	20-28	0-1	0	tiny lime green wasp
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 15				None			1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	20-28	0-1	0	tiny iridescent green wasp
YEW	Adjacent Ag 1	Arthropoda	Insecta	Homoptera 13				None			9	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	20-28	0-1	0	yellow/green tiny leafhopper
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 16				None			1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	20-28	0-1	0	tiny wasp-black with yellow legs
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 17				None			1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	20-28	0-1	0	tiny wasp long skinny ab
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 18				None			3	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	20-28	0-1	0	tiny wasp long skinny ab
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 10				None			super abundant	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	20-28	0-1	0	tiny iridescent green
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera	Hesperiidae	Hylephila	phyleus	Pinned	1	1373	1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	20-28	0-1	0	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera	Hesperiidae	Lerodea	eufala?	Pinned	1	1374	6	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	20-28	0-1	0	
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hymenoptera 1	Apidae			Pinned	1	1272	1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	730	32	0	0	same as 1272
YEW	Adjacent Ag 2	Arthropoda	Insecta	Lepidoptera 1				None			7	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	730	32	0	0	same as 1233
YEW	Adjacent Ag 2	Arthropoda	Insecta	Lepidoptera 2				None			1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	730	32	0	0	same as 1237
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 1				None			1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	730	32	0	0	same as 1312
YEW	Adjacent Ag 2	Arthropoda	Insecta	Odonata 1				None			2	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	730	32	0	0	Brown damselfly
YEW	Adjacent Ag 2	Arthropoda	Insecta	Odonata 2				None			1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	730	32	0	0	blue damselfly
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 2				None			1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	730	32	0	0	striped fly; same as 1134
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hymenoptera 2				Pinned	1	1290	1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	730	32	0	0	small bee
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 3				None			1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	730	32	0	0	same as 1135
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 4				None			2	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	730	32	0	0	small gnats
YEW	Adjacent Ag 2	Arthropoda	Insecta	Homoptera 1				None			3	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	730	32	0	0	brown leafhopper
YEW	Adjacent Ag 2	Arthropoda	Insecta	Homoptera 2				None			3	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	730	32	0	0	tan leaf hopper
YEW	Adjacent Ag 2	Arthropoda	Insecta	Homoptera 3				None			2	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	730	32	0	0	green leaf hopper

YEW	Adjacent Ag 2	Arthropoda	Insecta	Homoptera 4				Pinned	1	1291	3	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	730	32	0	0	
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 5				Pinned	1	1320	1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	730	32	0	0	small green fly
YEW	Adjacent Ag 2	Arthropoda	Insecta	Lepidoptera	Hesperidae	Lerodea	Eufala	None			2	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5 hours	21-28	0-2	0	
YEW	Adjacent Ag 2	Arthropoda	Insecta	Lepidoptera 3				None			1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5 hours	21-28	0-2	0	same as 1233
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hymenoptera 3				None			3	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5 hours	21-28	0-2	0	same as 1184
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 6				None			3	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5 hours	21-28	0-2	0	same as 1366
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 7				None			4	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5 hours	21-28	0-2	0	small black flies
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 8				None			36	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5 hours	21-28	0-2	0	med. Grey and black ab
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 9				None			2	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5 hours	21-28	0-2	0	same as 1369
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hymenoptera 4				None			12	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5 hours	21-28	0-2	0	same as 1371
YEW	Adjacent Ag 2	Arthropoda	Insecta	Coleoptera	Curculionidae			None			3	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5 hours	21-28	0-2	0	tiny
YEW	Adjacent Ag 2	Arthropoda	Insecta	Homoptera 5				None			10	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5 hours	21-28	0-2	0	fluourescent green leaf hopper
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera	Chironomidae 1			None			4	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5 hours	21-28	0-2	0	larger tiny small
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera	Chironomidae 2			None			22	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5 hours	21-28	0-2	0	tiny green
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 10				None			1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5 hours	21-28	0-2	0	small yellow and black abd., Fly
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera	Serfidae			None			1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5 hours	21-28	0-2	0	small
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 11				None			1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5 hours	21-28	0-2	0	yellow/green
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hymenoptera 5				Pinned	1	1376	1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5 hours	21-28	0-2	0	
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hymenoptera 6				Pinned	1	1377	2	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5 hours	21-28	0-2	0	red wasp black wings
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 12				None			35	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	11.5 hours	21-28	0-2	0	irredescent green
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera 1				Pinned	1	1282	1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	712	18	0	0	small wasp
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 1				None			1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	712	18	0	0	same as 1134
YEW	Adjacent Ag 5	Arthropoda	Insecta	Lepidoptera 1				None			1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	712	18	0	0	same as 1229
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera 2				Pinned	1	1283	1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	712	18	0	0	flying ant

YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 2					None		2	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	712	18	0	0	small green flies	
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera 3					None		1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	712	18	0	0	small wasp	
YEW	Adjacent Ag 5	Arthropoda	Insecta	Homoptera 1					None		5	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	712	18	0	0	leaf hopper see 1130	
YEW	Adjacent Ag 5	Arthropoda	Insecta	Coleoptera 1					Pinned	1	1318	2	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	712	18	0	0	small brown beetle
YEW	Adjacent Ag 5	Arthropoda	Insecta	Coleoptera 2					Pinned	1	1319	1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	712	18	0	0	small squashbug like
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 3					None			1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	712	18	0	0	brown gnat
YEW	Adjacent Ag 5	Arthropoda	Insecta	Lepidoptera 2					ETOH	1	1346	1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	712	18	0	0	larvae
YEW	Adjacent Ag 5	Arthropoda	Insecta	Lepidoptera 3					ETOH	5	1347	5	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	712	18	0	0	larvae
YEW	Adjacent Ag 5	Arthropoda	Insecta	Lepidoptera 4					ETOH	4	1348	4	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	712	18	0	0	larvae
YEW	Adjacent Ag 5	Arthropoda	Insecta	Ephemeroptera					ETOH	1	1349	1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	712	18	0	0	
YEW	Adjacent Ag 5	Arthropoda	Insecta	Coleoptera 3					Pinned	1	1375	1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Spot	712	18	0	0	
YEW	Adjacent Ag 5	Arthropoda	Insecta	Lepidoptera	Hesperiidae	Lerodea	Eufala		None			4	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	18-28	0-1	0	
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 4					None			10	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	18-28	0-1	0	same as 1366
YEW	Adjacent Ag 5	Arthropoda	Insecta	Coleoptera	Curculionidae				None			2	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	18-28	0-1	0	
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 5					None			45	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	18-28	0-1	0	tiny black
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 6					None			14	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	18-28	0-1	0	medium sized fly
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 7					None			28	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	18-28	0-1	0	med fly
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 8					None			1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	18-28	0-1	0	same as 1369
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 9					None			15	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	18-28	0-1	0	larger black fly
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera 4					None			3	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	18-28	0-1	0	same as 1377
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera 5					None			1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	18-28	0-1	0	same as 1050
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 10					None			6	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	18-28	0-1	0	same as 1371
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera	Serfidae 1				None			1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	18-28	0-1	0	big
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera	Serfidae 2				None			1	9/18/2007	H. Kloeppe; M. Winterowd; K. Conrad	Malaise	12 hours	18-28	0-1	0	small

Research AWPf Invertebrate Collection Sheet

Site Name: Rest Rip Iwaw 1 Location: YLU Date: 5/5/08 Form: of

Comments:

Malaise Trap

Date: 5/5/08 Set Temp. (°C): 25 Set % Cloud Cover: 100% Set Wind: 1 mph # of Envelopes: 1
 Removal Time: 7:00 Removal Temp. (°C): 24.0 Removal % Cloud Cover: 10% Removal Wind: 5 mph Number of Vials: 0

Timed Area Search

Date: 5/5/08 Stop Time: 9:44 (two people survey @ even.) Temperature: 29 % Cloud Cover: 100% Wind Speed: 1 mph
 Start Time: 9:01 Number of Vials:

UV Light

Date: Set Temp. (°C): Set % Cloud Cover: Set Wind:
 Start Time: Stop Time:

Observed Species

Order	Family	Genus and Species	Collection Method				Preservation				Count				Comments	
			Spot	UV	Malaise	Pit Trap	Pinned #	ETOH	Envelope	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)		Abundant (51-100)	Super-Abundant (>100)
Hymenoptera	Apidae	<i>Dacnusa gallica</i>	✓	✓	✓	✓	0	✓	✓	1388						not collected
			✓	✓	✓	✓	0	✓	✓	1389						no collected w/white dots
Diptera	Syrphidae		✓	✓	✓	✓	1	✓	✓							rest tip black white dots
Diptera			✓	✓	✓	✓	1	✓	✓							longer w/ black spots
Diptera			✓	✓	✓	✓	1	✓	✓							black fly
Diptera	Syrphidae		✓	✓	✓	✓	0	✓	✓							same as above
Diptera			✓	✓	✓	✓	0	✓	✓							grey abd pointed on
Diptera			✓	✓	✓	✓	0	✓	✓							body
Diptera			✓	✓	✓	✓	0	✓	✓							juv. on grey
Diptera			✓	✓	✓	✓	0	✓	✓							black
Diptera			✓	✓	✓	✓	0	✓	✓							grey
Diptera			✓	✓	✓	✓	0	✓	✓							reddish round ab
Diptera			✓	✓	✓	✓	0	✓	✓							important species

Research AWPf Invertebrate Collection Sheet

Site Name: RIP Co 5 Location: Yell Date: 5/18/08 Form: of

Comments:

Malaise Trap

Date: 5/18/08 Set Temp. (°C): 18° Set % Cloud Cover: 0 Set Wind: 1 mph # of Envelopes: 1
 Removal Time: 1915 Removal Temp. (°C): 30° Removal % Cloud Cover: 100% Removal Wind: 2 mph Number of Vials: 0

Timed Area Search

Date: 5/18/08 Temperature: 18 Wind Speed: 1 mph
 Start Time: 715 Stop Time: # of Envelopes: % Cloud Cover: 0

UV Light Date: Set Temp. (°C): Set Wind:
 Start Time: Stop Time:

Observed Species

Order	Family	Genus and Species	Collection Method				Preservation			Count					Comments				
			Spot	UV	Malaise	Pit	Pinned #	ETOH	Envelope	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)		Abundant (51-100)	Super-Abundant (>100)		
Diptera	1		✓														500	shiny long green furca	
Hymenoptera			✓															4	oblong green leafhopper
Lepidoptera			✓															5	tiny beige moths
Diptera	2		✓															7	fuzzy fat black wasp, spotted wings
Diptera	3		✓															20	oblong grey/black wasp, wings
Diptera	4		✓															2	curved grey/black wasp
Diptera	5		✓															1	fluffy fat black fly
Diptera	6		✓															3	orange/black wasp, wings
Diptera	7	Asilidae	✓															1	redder fly #4/1/08
Diptera	8		✓															1	orange/black wasp
Diptera	9		✓															1	painted yellow/black
Diptera	10		✓															1	green/red/black wasp
Diptera	11		✓															1	painted black/brown wasp

Research AWPf Invertebrate Collection Sheet

Site Name: Rip Con 2 Location: YEU Date: 5/5/08 Form: of

Comments:

Malaise Trap Date: 5/2/08 Set % Cloud Cover: 0 Set Wind: 0 # of Envelopes:

Set Time: 728 Set Temp. (C): 21 Removal % Cloud Cover: 20 Removal Wind: 0 Number of Vials:

Removal Time: 1429 Removal Temp. (C): 27 Temperature: 21 % Cloud Cover: 0 Wind Speed: 6

Timed Area Search Start Time: 730 Stop Time: 730 Number of Vials:

UV Light Date: 5/5/08 Set Temp. (C): 22 Set % Cloud Cover: 0 Set Wind: 1 mph

Start Time: 2005 Stop Time: 2118

Order	Family	Genus and Species	Collection Method				Preservation				Count				Super-Abundant (>100)	Comments
			Spot	UV	Malaise	Pit Trap	Pinned #	ETOH	Envelope	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)			Abundant (51-100)
Lepidoptera (1)			✓	✓	✓	✓	0	✓				6				See 1443
Hymenoptera (1)			✓	✓			0					6				See 226
Coleoptera (1)			✓	✓			0					7				See 1398
Lepidoptera (2)			✓	✓			1		1902			7				See 1454
Lepidoptera (3)			✓	✓			1		1403			8				See 1451
Lepidoptera (4)			✓	✓			0					4				See 104
Lepidoptera (5)			✓	✓			0					2				See 841
Lepidoptera (6)			✓	✓			0					4				See 1432
Hymenoptera (1)			✓	✓			0					8				See 1171
Coleoptera (2)			✓	✓			0					1				See 1916
Diptera (1)			✓	✓			0					5				See 1480
Diptera (1)			✓	✓			0					40				See 989
Coleoptera (5)			✓	✓			0					2				See 1399
Lepidoptera (7)			✓	✓			0					9				See 1249
Diptera (8)	Chironomidae		✓	✓			0					2				
Diptera (2)			✓	✓			0					10				green abdomen
Diptera (3)			✓	✓			0					3				tiny red
Hymenoptera (2)			✓	✓			0					2				yellow
Hymenoptera (3)			✓	✓			0					1				
Lepidoptera (8)			✓	✓			0					4				
Lepidoptera (9)			✓	✓			0					5				
Hymenoptera (3)			✓	✓			0					1				
Coleoptera (4)			✓	✓			0					1				

Research AWPf Invertebrate Collection Sheet

Site Name: Rest Rip Timm 3 Location: VEN Date: 5/5/08 Form: of

Comments:

Malaise Trap

Date: 5/5/08 Set % Cloud Cover: 58 OC
 Set Time: 748 Set Temp. (C): 22 Removal % Cloud Cover: 5 Set Wind: 1 mph # of Envelopes: 1
 Removal Time: 1403 Removal Temp. (C): 20 Removal % Cloud Cover: 5 Removal Wind: 10 Number of Vials:

Timed Area Search

Date: 5/5/08 Temperature: 22
 Start Time: 754 Stop Time: 854 % Cloud Cover: 58 Wind Speed: 1 mph
 Number of Vials:

UV Light Start Time: 2017 Date: 5/6/08 Stop Time: 2117 Set Temp. (C): 25 Set % Cloud Cover: 0 Set Wind: 2

Observed Species

Order	Family	Genus and Species	Collection Method				Preservation				Count				Super-Abundant (>100)	Comments		
			Spot	UV	Malaise	Pit	Pinned #	ETOH	Envelope	ID Number	None	1 to 2	3-20	Medium (21-50)			Abundant (51-100)	
Hymenoptera	Apidae		✓	✓	✓	✓											Not collected on mesh	
Diptera	Syrphidae																	not collected
Diptera	Mosquito																	
Diptera 1	Plecoptera																	
Cephalopoda		Darwin's gillnets																
Arachnida																		
Hymenoptera	Fanucidae		✓					2										
Diptera 2								0										
Diptera 3								0										
Hymenoptera								0										
Diptera 4								0										
Hymenoptera								0										
Diptera 5								0										
Diptera	Leptoceridae							0										
Hymenoptera								0										
Diptera 2								0										
Hymenoptera								0										
Diptera 3								0										
Hymenoptera								0										
Diptera 4								0										
Hymenoptera								0										
Diptera 5								0										
Diptera								0										
Hymenoptera								0										
Diptera 2								0										
Hymenoptera								0										
Diptera 3								0										
Hymenoptera								0										
Diptera 4								0										
Hymenoptera								0										
Diptera 5								0										
Diptera								0										
Hymenoptera								0										
Diptera 2								0										
Hymenoptera								0										
Diptera 3								0										
Hymenoptera								0										
Diptera 4								0										
Hymenoptera								0										
Diptera 5								0										
Diptera								0										
Hymenoptera								0										
Diptera 2								0										
Hymenoptera								0										
Diptera 3								0										
Hymenoptera								0										
Diptera 4								0										
Hymenoptera								0										
Diptera 5								0										
Diptera								0										
Hymenoptera								0										
Diptera 2								0										
Hymenoptera								0										
Diptera 3								0										
Hymenoptera								0										
Diptera 4								0										
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Diptera 5								0										
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Hymenoptera								0										
Diptera 2								0										
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Diptera 3								0										
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Diptera 2								0										
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Diptera 3								0										
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Diptera 2								0										
Hymenoptera								0										
Diptera 3								0										
Hymenoptera								0										
Diptera 4								0										
Hymenoptera								0										
Diptera 5								0										
Diptera								0										
Hymenoptera								0										
Diptera 2								0										
Hymenoptera								0										
Diptera 3								0										
Hymenoptera								0										
Diptera 4								0										
Hymenoptera								0										
Diptera 5								0										
Diptera								0										
Hymenoptera			</															

Research AWP Invertebrate Collection Sheet

Site Name: Pet Net 3 Location: Biddisur Date: 5/14/08 Form: of

Comments:

Malaise Trap Date: 5/15/08 Set % Cloud Cover: 40 Set Wind: 0-3 wph # of Envelopes:

Set Time: 0500 Set Temp. (°C): 21 Removal % Cloud Cover: 40 Removal Wind: 5-10 Number of Vials:

Removal Time: 755 Removal Temp. (°C): 32 Temperature: 27 Wind Speed: 5

Timed Area Search Date: 5/15/08 % Cloud Cover: 20 # of Envelopes:

Start Time: 842 Stop Time: 942 Set Temp. (°C): 32 Set % Cloud Cover: 40 Set Wind: 5-10

UV Light Start Time: 805 Date: 5/13/08 Stop Time: 905 Set Temp. (°C): 32 Set % Cloud Cover: 40 Set Wind: 5-10

Order	Family	Genus and Species	Collection Method				Preservation				Count				Super-Abundant (>100)	Comments
			Spot	UV	Malaise	Pit Trap	Pinned #	ETOH	Envelope	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)			Abundant (51-100)
Diptera	Chironomidae	1	✓													green
Diptera	Chironomidae	2	✓													tan
Diptera	Chironomidae	3	✓													larger tan
Diptera			✓													tiny black flies
Coleoptera	Staphylinidae		✓													tiny black
Coleoptera	Scarabidae		✓													same as sm. Scarab collected on red wings - ten miles
Hymenoptera		1	✓													tiny brown leafhopper
Hymenoptera		2	✓													brown leafhopper
Hymenoptera		3	✓													orange leafhopper
Hymenoptera		1	✓													broader wings
Coleoptera			✓													flat brown beetle (common)
Diptera		2	✓													black fly
Lepidoptera		1	✓													seen over pool w/ black dots
Lepidoptera		2	✓													white
Lepidoptera		3	✓													brown
Diptera		3	✓													same as 1765
Diptera	Syrphidae	1	✓													same as 1759
Hymenoptera		2	✓													same as 1763
Diptera		2	✓													same as 1756
Diptera	Syrphidae	3	✓													yellow jacket
Hymenoptera		4	✓													sm.
Diptera	Syrphidae	3	✓													hairy red
Hymenoptera		4	✓													large black yellow ab

Research AWPf Invertebrate Collection Sheet

Site Name: Res Wet 2 Location: Baldwin Date: 5/14/08 Form: of

Comments:

Malaise Trap Date: 5/5/08 Set % Cloud Cover: 40 Set Wind: 0-5 mph # of Envelopes:

Set Time: 625 Set Temp. (C): 19 Removal % Cloud Cover: 25 Removal Wind: 5 mph Number of Vials:

Removal Time: 738 Removal Temp. (C): 32 Temperature: 28 Wind Speed: 2.5

Timed Area Search Start Time: 840 Stop Time: 940 % Cloud Cover: 20

of Envelopes: 0 Number of Vials: 1 Set % Cloud Cover: Set Wind:

UV Light Date: Stop Time: Set Temp. (C): Set % Cloud Cover: Set Wind:

Order	Family	Genus and Species	Collection Method				Preservation				Count				Comments		
			Spot	UV	Malaise	Pit	Pinned #	ETOH	Envelope	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)		Abundant (51-100)	Super-Abundant (>100)
Diptera	Tephritidae		✓							0					35		Same as 1756
Diptera	Syrphidae		✓							0					21		Same as 1759
Diptera 1			✓							0	2						Same as 1758
Diptera 2			✓							0	2						Made fly
Hydroptera										0	1						Same as 1757 in Petri
Hydroptera 2										0	1						Same as 1757
Hydroptera 2	Syrphidae		✓							0		7					Same as 1755
Diptera 3			✓							0			12				Same
Diptera 3			✓							0			8				Same as 1765
Diptera 4	Syrphidae		✓							0			12				Sim. Syrph. nanzouab
Diptera 5			✓							0			7				black fly
Diptera 6			✓							0	2						light grey fly same
Diptera 7			✓							0		4					red leg
Diptera 8			✓							0		4					stomach black
Diptera 9			✓							0		4					grey and fly
Diptera 10			✓							0	1						red brown ab
Diptera 11			✓							0	2						Same as Hy 9 on Petri
Diptera 12			✓							0	2						Sim. wasps orange
Diptera 13			✓							0	2						grey
Diptera 13			✓							0	1						black thin body
Diptera 13			✓							0	1						Sim. yellow fly

Research AWPf Invertebrate Collection Sheet

Site Name: BWNR Location: Ref Rip 4 Date: 5/13/08 Form: of

Comments:

Malaise Trap
 Date: 5/14/08
 Set Temp. (°C): 11.40 Set % Cloud Cover: 0%
 Removal Temp. (°C): 10.35 Removal % Cloud Cover: 50%
 Set Wind: 0 mph
 Removal Wind: 5
 # of Envelopes:
 Number of Vials:

Timed Area Search
 Date: 5/14/08 Temperature: 30
 Start Time: 10:16 Stop Time: 11:19 % Cloud Cover: 0%
 Number of Vials: 0 Wind Speed: 1 mph

UV Light
 Date: 5/13/08 Set Temp. (°C): 27
 Start Time: 2000 Stop Time: 2100 Set % Cloud Cover: 0
 Set Wind: 0

Order	Family	Genus and Species	Collection Method				Preservation				Count				Comments			
			Spot	UV	Malaise	Pit	Pinned #	ETOH	Envelope	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)		Abundant (51-100)	Super-Abundant (>100)	
Diptera																		
Diptera	Asilidae								1966	0	1							yellow fly
Diptera										0		10						iridescent green
Diptera										0	1							white face
Diptera										0		3						sun yellow flies
Diptera										0		3						med. black flies
Diptera									1367	0	1							black fly
Diptera										0		1						black, ptab.
Diptera	Scenopinidae								1997	0	1							lg. june beetle
Coleoptera									2003	0	2							Yed
Hymenoptera										0	1							darkened pt. abd.
Hymenoptera										0	1							sun. yellow wasp
Hymenoptera										0		3						green lacewing
Hymenoptera										0	1							flat brown beetle - 1st inst
Hymenoptera										0		4						sun. yellow wasp
Coleoptera										0		6						sun. yellow wasp
Coleoptera										0	2							sun. yellow wasp
Hymenoptera										0	1							sun. yellow wasp
Hymenoptera										0	2							sun. yellow wasp
Hymenoptera										0	1							sun. yellow wasp
Hymenoptera										0		23						sun. yellow wasp
Hymenoptera										0		5						sun. yellow wasp
Hymenoptera										0	1							sun. yellow wasp

57 pool

Entered 9/14/08

Research AWPf Invertebrate Collection Sheet

Site Name: Yow Location: as 1 Date: 7/8/08 Form: of

Malaise Trap

Set Time: 7:15 Date: 7/8/08 Set Temp. (C): 34.0 Set % Cloud Cover: 0% Set Wind: 3 mph # of Envelopes:

Removal Time: Removal Temp. (C): Removal % Cloud Cover: Removal Wind: Number of Vials:

Timed Area Search Start Time: 8:54 Date: 7/8/08 Stop Time: 9:54 Temperature: 37.0 % Cloud Cover: 0% Wind Speed: 2-3 mph

of Envelopes: 1 Number of Vials: 2 UV Light Start Time: Stop Time: Set Temp. (C): Set % Cloud Cover: Set Wind:

Observed Species

Order	Family	Genus and Species	Collection Method				Preservation				Count				Comments
			Spot	UV	Malaise	Pk Trap	Pinhead #2	ETOH	Envelope	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)		Abundant (51-100)	Super-Abundant (>100)
Diptera			✓		✓				2074					✓	like #989, small green
Diptera			✓						2035						like #989
Diptera			✓		✓				2076		✓				like #517, spot on wings
Diptera			✓		✓						✓				blk w/lt. abd., # 1290
Diptera			✓		✓						✓				like # 513, w/ stripes
		None													like # 423
Coleoptera			✓								✓				like # 111, jewelbug
Coleoptera			✓								✓				like # 262, alive beetle
Coleoptera			✓								✓				like # 246, brown beetle
Coleoptera			✓								✓				like # 695, brown long
Coleoptera			✓								✓				like # 505, tan long
Coleoptera			✓								✓				like # 108,
Coleoptera			✓								✓				like # 258, shiny beetle
Coleoptera			✓								✓				like # 219, sm. dk beetle
Coleoptera			✓						2149		✓				like # 1595
Coleoptera			✓						2150		✓				like # 156, ant winged
Hymenoptera			✓								✓				like # 173, hairy wasp
Hymenoptera			✓								✓				like # 598, female
Lepidoptera			✓								✓				like # 187-1,
Lepidoptera			✓								✓				like # 1897
Hemiptera			✓								✓				like # 2085, # 148
Hemiptera			✓						2113		✓				
Hemiptera			✓						2114		✓				
Hemiptera			✓						2115		✓				
Neuroptera			✓								✓				like # 1094,

Research AWPf Invertebrate Collection Sheet

Site Name: Yew Location: Wet can 2 Date: 7/9/08 Form: ___ of ___

Comments: _____

Malaise Trap Date: 7/9/08
 Set Time: 9:00 Set Temp. (°C): 36°C Set % Cloud Cover: 0 Set Wind: 2 mph # of Envelopes: 1
 Removal Time: 1840 Removal Temp. (°C): _____ Removal % Cloud Cover: 35% Removal Wind: 6 mph Number of Vials: 0

Timed Area Search Date: 7/9/08
 Start Time: 9:05 Stop Time: 10:05 Temperature: 36°
 # of Envelopes: 1 Number of Vials: 1 (aquatic) % Cloud Cover: 0 Wind Speed: 2

UV Light Date: _____
 Start Time: _____ Stop Time: _____ Set Temp. (°C): _____ Set % Cloud Cover: _____ Set Wind: _____

Observed Species

Order	Family	Genus and Species	Collection Method				Preservation				Count				Comments	
			Spot	UV	Malaise	Pit Trap	Pinned #	ETOH	Envelope	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)		Abundant (51-100)
Odonata			✓						2039		✓					damselfly Larvae
Hemiptera	Notonectidae	1	✓						2040		✓					back swimmer
Diptera					✓						✓	✓				like # 513, lg w/ grise
Diptera					✓						✓	✓				like # 461, robber fly
Diptera					✓						✓	✓				like # 1308, gn. fly
Diptera					✓						✓	✓				like # 286, gn. stripes
Diptera					✓						✓	✓				like # 512, blk fly
Diptera					✓						✓	✓				like # 796, sp. enwiper
Diptera					✓						✓	✓				like # 673, orange abd.
Hymenoptera					✓			162	2107		✓	✓				like # 2102,
Hymenoptera					✓			282	2108		✓	✓				wasp w/ long hind legs
Diptera					✓						✓	✓				wasp w/ long hind legs
Hymenoptera					✓						✓	✓				like # 1372, sarcophag.
Diptera					✓						✓	✓				like # 520, blk wasp
Diptera					✓						✓	✓				like # 989, green gnst
Hymenoptera					✓			1	2109		✓	✓				like # 2077, blk gnst
Odonata			✓								✓	✓				like # 721, blue dragon
Odonata			✓								✓	✓				like # 949, dragonfly
Odonata			✓								✓	✓				like # 107,
Hymenoptera			✓					1	2110		✓	✓				yellow bee

Research AWPf Invertebrate Collection Sheet

Site Name: Yew Location: Wetland Date: 7/4/08 Form: of

Comments: _____

Malaise Trap

Date: 7/4/08
 Set Time: 915 Set Temp. (°C): 36° Set % Cloud Cover: 0% Set Wind: 2 mph # of Envelopes: 1
 Removal Time: 1934 Removal Temp. (°C): 32° Removal % Cloud Cover: 35% Removal Wind: 4 mph Number of Vials: 0

Timed Area Search

Date: 7/4/08
 Start Time: 915 Stop Time: 1021 Temperature: 36°
 # of Envelopes: 1 Number of Vials: 1 % Cloud Cover: 0% Wind Speed: 2 mph

UV Light

Start Time: Stop Time: Set Temp. (°C): Set % Cloud Cover: Set Wind:

Observed Species

Order	Family	Genus and Species	Collection Method				Preservation				Count					Comments
			Spot ✓	UV ✓	Malaise ✓	Pit Trap ✓	Pinned #	ETOH ✓	Envelope ✓	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)	Abundant (51-100)	
Araneae			✓						2037		✓					Translucent in cuticle
Hemiptera	Geridae		✓						2039							
Odonata	1		✓								2					same as 721
Odonata	2		✓								1					same as 950
Odonata	3		✓								2					same as 110
Diptera	1				✓						✓	✓				like # 461
Diptera	2				✓						✓	✓				like # 843, light abd.
Hymenoptera	1				✓						✓	✓				like # 983
Hymenoptera	2				✓						✓	✓				like # 604
Lepidoptera	1				✓						✓	✓				like # 827, dark moth
Hymenoptera	3				✓						✓	✓				like # 707, honey bee
Diptera	3				✓						✓	✓				like # 1552
Hymenoptera	4				✓			1	2015		✓	✓				uneven stripes on abd.
Diptera	4				✓						✓	✓				like # 1543, small fly
Diptera	5				✓						✓	✓				like # 989, gr. grass
Diptera	6				✓						✓	✓				like # 2077, blk gnat

Research AWPf Invertebrate Collection Sheet

Site Name: Yow Location: ag 1 Date: 7/8/08 Form: of

Comments: _____

Malaise Trap Date: 7/8/08
 Set Time: 715 Set Temp. (°C): 340 Set % Cloud Cover: 0% Set Wind: 3 MPH # of Envelopes: _____
 Removal Time: _____ Removal Temp. (°C): _____ Removal % Cloud Cover: _____ Removal Wind: _____ Number of Vials: _____

Timed Area Search Date: 7/8/08
 Start Time: 854 Stop Time: 954 Temperature: 37°
 # of Envelopes: 1 Number of Vials: 0 % Cloud Cover: 0% Wind Speed: 2-3 mph

UV Light Date: _____
 Start Time: _____ Stop Time: _____ Set Temp. (°C): _____ Set % Cloud Cover: _____ Set Wind: _____

Observed Species

Order	Family	Genus and Species	Collection Method				Preservation					Count					Comments
			Spot	UV	Malaise	Pk Trap	Pinned #2	ETOH	Envelope	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)	Abundant (51-100)	Super-Abundant (>100)	
Diptera	1				✓						2074					✓	like #989, small green
Diptera	1				✓						2075					✓	like #989.
Diptera	2				✓						2076						like #917, spot on wings
Diptera	3				✓							✓					blk w/ lt. abd., # 1290
Diptera	4				✓							✓					like # 513, w/ stripes
Diptera	1				✓							✓	✓				like # 423
		None															
Coleoptera	1			✓								✓					like #111, junco bug
Coleoptera	2			✓								✓					like # 202, dive beetle
Coleoptera	3			✓								✓					like # 246, brown beetle
Coleoptera	4			✓								✓					like # 695, brown long
Coleoptera	5			✓								✓					like # 565, tan long
Lepidoptera	2			✓								✓					like # 108.
Coleoptera	6			✓								✓					like # 258, shiny beetle
Coleoptera	7			✓								✓					like # 219, sm. dik beetle
Coleoptera	8			✓							1082						
Coleoptera	9			✓							2149						
Coleoptera	10			✓							2150						like # 1595
Hymenoptera	1			✓								✓					like # 156, ant winged
Hymenoptera	2			✓								✓					like # 177, hairy wasp
Hymenoptera	3			✓								✓					like # 598, termite
Lepidoptera	2			✓								✓					like # 1871, termite
Lepidoptera	4			✓								✓					like # 1897
Hemiptera	1			✓								✓					like # 2085, 148
Hemiptera	1			✓							169						
Hemiptera	2			✓							267						
Hemiptera	3			✓							363						
Neuroptera	Chrysopidae	1		✓								✓					like # 1084.

Research AWPf Invertebrate Collection Sheet

Site Name: Yew Location: Ag 2 Date: 7/8/08 Form: of
 Comments:

Malaise Trap Date: 7/8/08
 Set Time: 740 Set Temp. (°C): 31° Set % Cloud Cover: 0% Set Wind: 3 mph # of Envelopes: 1
 Removal Time: 1941 Removal Temp. (°C): 35° Removal % Cloud Cover: 2% Removal Wind: 4 mph Number of Vials: 2

Timed Area Search Date: 7/8/08
 Start Time: 740 Stop Time: 840 Temperature: 31°
 # of Envelopes: 1 Number of Vials: 2 % Cloud Cover: 0% Wind Speed: 3 mph

UV Light Date:
 Start Time: Stop Time: Set Temp. (°C): Set % Cloud Cover: Set Wind:

Observed Species

Order	Family	Genus and Species	Collection Method				Preservation				Count					Comments
			Spot ✓	UV ✓	Malaise ✓	Pit Trap ✓	Pinned #	ETOH ✓	Envelope ✓	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)	Abundant (51-100)		Super- Abundant (>100)
Diptera	1				✓						✓			✓		like #989, green gnat
Diptera	2										✓	✓				like #513,
Diptera	3										✓	✓				like #856
Diptera	4										✓	✓				like #1496
Diptera	5										✓	✓				like #2077
Hymenoptera	1										✓	✓				like #1290, red abdomen
Lepidoptera	1											✓				
hemiptera	1		✓													
hemiptera	2		✓								✓	✓				same as 2del
Lepidoptera	2		✓									✓				yellow butterfly
Lepidoptera	3		✓									✓				white butterfly
Coleoptera	1		✓								✓	✓				green/gold tiny beetle
Hymenoptera	2		✓								✓	✓				same as # 883
Hymenoptera	3		✓								✓	✓				same as # 710
Orthoptera	1		✓								✓	✓				same as # 982
Diptera	6		✓								✓	✓				same as # 461 Robby
Coleoptera	2		✓								✓	✓				same as # 606
Orthoptera	odonata		✓									✓				Yellowbody damsel

Research AWPf Invertebrate Collection Sheet

Site Name: Yow Location: ag 1 Date: 7/8/08 Form: of

Comments: _____

Malaise Trap Date: 7/8/08
 Set Time: 715 Set Temp. (°C): 340 Set % Cloud Cover: 0% Set Wind: 3 MPH # of Envelopes: _____
 Removal Time: _____ Removal Temp. (°C): _____ Removal % Cloud Cover: _____ Removal Wind: _____ Number of Vials: _____

Timed Area Search Date: 7/8/08
 Start Time: 854 Stop Time: 954 Temperature: 37°
 # of Envelopes: 1 Number of Vials: 0 % Cloud Cover: 0% Wind Speed: 2-3 mph

UV Light Date: _____
 Start Time: _____ Stop Time: _____ Set Temp. (°C): _____ Set % Cloud Cover: _____ Set Wind: _____

Observed Species

Order	Family	Genus and Species	Collection Method				Preservation					Count					Comments
			Spot	UV	Malaise	Pk Trap	Pinned #2	ETOH	Envelope	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)	Abundant (51-100)	Super-Abundant (>100)	
Diptera	1				✓				2074					✓		like #989, small green	
Diptera	1				✓			2075						✓		like #989.	
Diptera	2				✓			2076			✓					like #917, spot on wings	
Diptera	3				✓					✓	✓					blk w/ lt. abd., # 1290	
Diptera	4				✓					✓		✓				like # 513, w/ stripes	
Diptera	1				✓					✓	✓					like # 423	
		None															
Coleoptera	1			✓						✓		✓				like #111, junco bug	
Coleoptera	2			✓						✓		✓				like # 202, dive beetle	
Coleoptera	3			✓						✓		✓				like # 246, brown beetle	
Coleoptera	4			✓						✓		✓				like # 695, brown long	
Coleoptera	5			✓						✓		✓				like # 565, fan long	
Lepidoptera	2			✓						✓						like # 108.	
Coleoptera	6			✓						✓			✓			like # 258, shiny beetle	
Coleoptera	7			✓						✓				✓		like # 219, sm. dik beetle	
Coleoptera	8			✓				1082	2149								
Coleoptera	9			✓				203	2150			✓					
Coleoptera	10			✓						✓		✓				like # 1595	
Hymenoptera	1			✓						✓		✓				like # 156, ant winged	
Hymenoptera	2			✓						✓		✓				like # 177, hairy wasp	
Hymenoptera	3			✓						✓		✓				like # 598, termite	
Lepidoptera	2			✓						✓		✓				like # 1871, termite	
Lepidoptera	4			✓						✓		✓				like # 1897	
Hemiptera	1			✓						✓			✓			like # 2085, 148	
Hemiptera	1			✓				169	2113			✓					
Hemiptera	2			✓				267	2114			✓					
Hemiptera	3			✓				363	2115			✓					
Neuroptera	Chrysopidae	1		✓						✓		✓				like # 1084.	

Research AWPf Invertebrate Collection Sheet

Site Name: Yew Location: Rip con 2 Date: 7/9/08 Form: of

Comments: _____

Malaise Trap Date: 7/10/08
 Set Time: 430 Set Temp. (°C): 39.0 Set % Cloud Cover: 90% Set Wind: 0 # of Envelopes: _____
 Removal Time: 2107 Removal Temp. (°C): 33.0 Removal % Cloud Cover: 90% Removal Wind: 5 mph Number of Vials: _____

Timed Area Search Date: 7/10/08
 Start Time: 1120 Stop Time: _____ Temperature: 33.0
 # of Envelopes _____ Number of Vials: _____ % Cloud Cover: 95% Wind Speed: 3-5 mph

UV Light Date: 7/9/08
 Start Time: 1957 Stop Time: 3110 Set Temp. (°C): 33.0 Set % Cloud Cover: 25% Set Wind: 2 mph

Observed Species

Order	Family	Genus and Species	Collection Method				Preservation				Count					Comments		
			Spot	UV	Malaise	Pit Trap	Pinned #	ETOH	Envelope	ID Number	None	1	2	Few (3-20)	Medium (21-50)		Abundant (51-100)	Super-Abundant (>100)
Odonata	1		✓															Same as 721
Odonata	2		✓															Same as 1067
Odonata	3		✓															Same as 1293
Hymenoptera	1		✓															Same as 1067
Hymenoptera	2			✓														like # 598, termite
Coleoptera	1			✓														like # 111, June bug
Coleoptera	2			✓														like # 240
Coleoptera	3			✓														like # 695
Coleoptera	4	Curculionidae		✓														like # 562
Coleoptera	5			✓														like # 262
Coleoptera	6			✓														like # 1904
Coleoptera	7			✓														gray beetle, blk eyes
Coleoptera	8			✓														gray beetle, blk eyes
Coleoptera	9			✓														like # 258
Coleoptera	10			✓														like # 565
Hymenoptera	3			✓														like # 156, winged ant
Coleoptera	10			✓														like # 2060
Hymenoptera	4			✓														like # 1771
Hymenoptera	5			✓														like # 1213, lg gill leafhopper
Coleoptera	11			✓														blk ant w/ wings, # 830
Lepidoptera	1			✓														like # 649, small beetle
Lepidoptera	2			✓														like # 1744
Lepidoptera	3			✓														like # 1187
Coleoptera	12			✓														like # 1078
Lepidoptera	1			✓														like # 739
Hymenoptera	2			✓														like # 1744
				✓														like # 2067, cone leafhopper

Research AWP Invertebrate Collection Sheet

Site Name: Planet Ranch Location: Ref RIP 4 Date: 7/17/08 Form: of

Comments: _____

Malaise Trap Date: 7/17/08
 Set Time: 9:35 Set Temp. (°C): 31° Set % Cloud Cover: 0% Set Wind: 0 # of Envelopes: _____
 Removal Time: 30:40 Removal Temp. (°C): 29° Removal % Cloud Cover: 0% Removal Wind: 0 Number of Vials: _____

Timed Area Search Date: 7/17/08
 Start Time: 12:00 Stop Time: 13:00 Temperature: 39°
 # of Envelopes _____ Number of Vials: _____ % Cloud Cover: 0% Wind Speed: 1 mph

UV Light Date: 7/12/08
 Start Time: 20:50 Stop Time: 21:50 Set Temp. (°C): 29° Set % Cloud Cover: 0 Set Wind: 0

Observed Species

Order	Family	Genus and Species	Collection Method				Preservation					Count				Comments
			Spot	LV	Malaise	Pit Trap	Pinned #	ETOH	Envelope	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)	Abundant (51-100)	
Coleoptera	Elateridae			✓											✓	#565
Coleoptera		2		✓										✓		#695
Hymenoptera		1		✓										✓		#156
Coleoptera		3		✓							✓					#2003
Coleoptera	Exateridae	4		✓								✓				#1000 683
Hymenoptera		2		✓									✓			#1771
Coleoptera	Scarabidae	5		✓									✓			#1909
Coleoptera		6		✓									✓			#257
Coleoptera		7		✓								✓				#562
Coleoptera		8		✓								✓				#246
Lepidoptera		1		✓									✓			#1871
Hymenoptera		3		✓									✓			termite #598
Hymenoptera	Chysipidae	1		✓									✓			lacewing #595
Homoptera		1		✓									✓			#2053 Leaf Hopper
Coleoptera		9		✓				1					✓			2063
Coleoptera		10		✓				1					✓			2121
Coleoptera		11		✓				1					✓			2123
Coleoptera		12		✓				1					✓			2124
Coleoptera		13		✓				1					✓			2125
Coleoptera		14		✓				1					✓			2126
Coleoptera		15		✓				1					✓			2127
Coleoptera		16		✓				1					✓			2128
Coleoptera		17		✓				1					✓			2129
Coleoptera		18		✓				1					✓			2130
Coleoptera	Elateridae	19		✓								✓	✓			like #695
Diptera		1		✓								✓		✓		like #280
Hymenoptera		4		✓								✓		✓		like #534
Hymenoptera		5		✓								✓		✓		like #709

Research AWPB Invertebrate Collection Sheet

Site Name: _____ Location: _____ Date: _____ Form: _____ of _____

Observed Species

Order	Family	Genus and Species	Collection Method				Preservation				Count				Comments	
			Spot ✓	UV ✓	Malaise ✓	Pit Trap ✓	Pinned #	ETOH ✓	Envelope ✓	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)		Abundant (51-100)
Diptera	2				✓						✓	✓				like # 782
Hymenoptera	1				✓						✓	✓				like # 1569
Diptera	3				✓						✓		✓			like # 989, 988, gnat
Diptera	4				✓						✓		✓			like # 2077, blk gnat
Coleoptera	20				✓						✓		✓			like # 2151
Diptera	5				✓						✓	✓				like # 877
Hemiptera	2				✓						✓	✓				like # 2132
Lepidoptera	2				✓						✓		✓			like # 1869
Lepidoptera	3				✓						✓	✓				like # 1871
Coleoptera	21		✓								✓					like # 1604
Hemiptera	3		✓								✓	✓				like # 2051, brn cicada
Hemiptera	4		✓								✓	✓				like # 202, blk cicada
Odonata			✓								✓	✓				like # 1304
Orthoptera				✓								✓				grasshopper light brown
Lepidoptera	Sphingidae			✓								✓				sphinx moth
Odonata			✓									✓				blk dragonfly w/ white

Research AWPf Invertebrate Collection Sheet

Site Name: Harold Kauch Location: Ref RIP6 Date: 7/17/08 Form: of

Comments: _____

Malaise Trap Date: 7/17/08
 Set Time: 1005 Set Temp. (°C): 32° Set % Cloud Cover: 0% Set Wind: 0 # of Envelopes: 1
 Removal Time: 2115 Removal Temp. (°C): 29° Removal % Cloud Cover: 0% Removal Wind: 0 Number of Vials: _____

Timed Area Search Date: 7/17/08
 Start Time: 1020 Stop Time: 1120 Temperature: 32°
 # of Envelopes: 3 Number of Vials: 1 % Cloud Cover: 0 Wind Speed: 0

UV Light Date: _____
 Start Time: _____ Stop Time: _____ Set Temp. (°C): _____ Set % Cloud Cover: _____ Set Wind: _____

Observed Species

Order	Family	Genus and Species	Collection Method				Preservation					Count					Comments
			Spot ✓	UV ✓	Malaise ✓	Pit Trap ✓	Pinned #	ETOH ✓	Envelope ✓	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)	Abundant (51-100)	Super- Abundant (>100)	
Lepidoptera	1		✓				1			2145		✓					brown butterfly
Lepidoptera			✓														
Lepidoptera			✓														
Lepidoptera			✓														
Orthoptera	1		✓				1			2116		✓					like # 2097, low rose
Hemiptera	Cicadidae	1	✓									✓	✓				like # 2051, tm cicada
Odonata	1		✓									✓	✓				like # 997, ruby wing
Odonata	Gomphidae	Brochothemis 2 mandax	✓									✓	✓				like # 1005,
Odonata	3		✓				1			2120		✓					like # 999, orange wing
Odonata	4				✓		1			2120		✓					
Diptera	1				✓							✓		✓			like # 513, stripe fly
Diptera	2				✓							✓	✓				like # 401, ribbon fly
Diptera	3				✓							✓	✓				like # 512, black fly
Coleoptera	Elatridae	1			✓							✓		✓			like # 695, brown click
Hymenoptera	1				✓							✓	✓				like # 2091, lg. br. wasp
Diptera	1				✓		1			2117		✓	✓				like # 981,
Hymenoptera	2				✓							✓	✓				like # 1771
Hymenoptera	3				✓							✓	✓				like # 2092
Lepidoptera	2				✓							✓		✓			like # 1078
Diptera	5				✓							✓		✓			like # 989, grn gnat
Diptera	6				✓							✓		✓			like # 2097, blk gnat
Diptera	7				✓		1			2118		✓		✓			like # 877,
Diptera					✓					2119		✓					like # 997,
Diptera					✓					2120		✓					

Research AWPf Invertebrate Collection Sheet

Site Name: BC/NWR Location: Ref Wet 2 Date: 7/18/08 Form: of

Comments: _____

Malaise Trap
 Date: 7/18/08
 Set Time: 625 Set Temp. (°C): 33° Set % Cloud Cover: 5% Set Wind: 1 mph # of Envelopes: 1
 Removal Time: _____ Removal Temp. (°C): 33° Removal % Cloud Cover: 25% Removal Wind: 1 mph Number of Vials: _____

Timed Area Search
 Date: 7/18/08
 Start Time: 1140 Stop Time: 1930 Temperature: 40°
 # of Envelopes: 1 Number of Vials: 1 % Cloud Cover: 10% Wind Speed: 0

UV Light
 Date: _____
 Start Time: _____ Stop Time: _____ Set Temp. (°C): _____ Set % Cloud Cover: _____ Set Wind: _____

Observed Species

Order	Family	Genus and Species	Collection Method				Preservation					Count					Comments
			Spot	UV	Malaise	Pit Trap	Pinned #	ETOH	Envelope	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)	Abundant (51-100)	Super-Abundant (>100)	
Hymenoptera			✓								✓	✓					Yellow jacket
Odonata			✓								✓	✓					Yellow Dragonfly - see sample
Odonata			✓								✓	✓					Blue Dragonfly - see sample
Odonata			✓								✓	✓					Dragonfly nymph
Diptera	1				✓						✓		✓				like # 513
Diptera	2				✓						✓		✓				like # 280
Hymenoptera	1				✓						✓	✓					like # 424 honey bee
Hymenoptera	2				✓						✓	✓					like # 425
Hymenoptera	3				✓						✓	✓					like # 1757
Hymenoptera	4				✓						✓	✓					like # 709
Hymenoptera	5				✓						✓	✓					like # 717
Diptera	3				✓						✓	●	✓				like # 792
Diptera	4				✓						✓	✓					like # 1137
Diptera	5				✓						✓	✓					like # 1135
Diptera	6				✓						✓	●	✓				like # 1255
Diptera	7				✓						✓	✓					like # 989
Diptera	8				✓						✓	✓					like # 2077
Odonata	1				✓						✓	✓					like # 1330

Research AWPf Invertebrate Collection Sheet

Site Name: BWNWR Location: Ref Wet 3 Date: 7/18/08 Form: of

Comments: _____

Malaise Trap Date: 7/16/08
 Set Time: 545 Set Temp. (°C): 34° Set % Cloud Cover: 5% Set Wind: 0 # of Envelopes: 1
 Removal Time: 2025 Removal Temp. (°C): 32° Removal % Cloud Cover: 25% Removal Wind: 0 Number of Vials: _____

Timed Area Search Date: 7/18/08
 Start Time: 1035 Stop Time: 1135 Temperature: 43°
 # of Envelopes: 1 Number of Vials: 1 % Cloud Cover: 10% Wind Speed: 0

UV Light Date: 7/18/08
 Start Time: 2036 Stop Time: 2136 Set Temp. (°C): 32° Set % Cloud Cover: 25% Set Wind: 0

Observed Species

Order	Family	Genus and Species	Collection Method				Preservation					Count				Comments
			Spot	UV	Malaise	Pit Trap	Pinned #	ETOH	Envelope	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)	Abundant (51-100)		Super-Abundant (>100)
Hymenoptera	1				✓						✓		✓			like # 425
Diptera	2				✓						✓	✓				like # 513
Diptera	3				✓						✓		✓			like # 512
Coleoptera	1				✓						✓	✓				like # 1595, ladyb
Diptera	4				✓						✓		✓			like # 286
Diptera	5				✓						✓		✓			like # 1255, wing spot
Diptera	6				✓						✓		✓			like # 989, gr. gnat
Diptera	7				✓						✓		✓			like # 2077, blk gnat
Hymenoptera	2				✓						✓	✓				like # 1757
Hymenoptera	3				✓						✓	✓				like # 1102
Blattella	1				✓			1			2122	✓	✓			cockroach
Diptera	8				✓							✓	✓			like # 1137
Diptera	9				✓							✓	✓			like # 923
Hymenoptera	4				✓							✓	✓			like # 524
Arachnid	1			✓					✓		2131		✓			
Odonata	1			✓								✓	✓			like # 933, bla. drg fly
Odonata	2			✓								✓	✓			like # 703
Coleoptera	1			✓								✓	✓			like # 1595 ladybug
Coleoptera	2			✓								✓		✓		like # 565, tan beetle
Diptera	5			✓								✓	✓			like # 1255, sp. wing
Coleoptera	2			✓								✓	✓	✓		like # 258
Hymenoptera	1			✓				162			2132		✓			green leaf hopper
"	1			✓				262			2133		✓			green leaf hopper
Coleoptera	3			✓				1			2151		✓			small gray beetle
Diptera	6			✓								✓	✓			like # 722
Lepidoptera	1			✓								✓	✓			like # 2016
Odonata	3			✓					✓		2152		✓	✓		damselfly
Odonata	4			✓					✓				✓			

Research AWPf Invertebrate Collection Sheet

Site Name: DUNWR Location: Ref wet 5 Date: 7/18/08 Form: of

Comments: _____

Malaise Trap

Date: 7/18/08
 Set Time: 910 Set Temp. (°C): 36° Set % Cloud Cover: 5% Set Wind: 0 # of Envelopes: _____
 Removal Time: 1956 Removal Temp. (°C): 24 Removal % Cloud Cover: 30% Removal Wind: 1 mph Number of Vials: _____

Timed Area Search

Date: 7/18/08
 Start Time: 925 Stop Time: 1025 Temperature: 36°
 # of Envelopes: 1 Number of Vials: _____ % Cloud Cover: 5% Wind Speed: 0

UV Light

Date: _____
 Start Time: _____ Stop Time: _____ Set Temp. (°C): _____ Set % Cloud Cover: _____ Set Wind: _____

Observed Species

Order	Family	Genus and Species	Collection Method				Preservation					Count					Comments
			Spot ✓	UV ✓	Malaise ✓	Pit Trap ✓	Pinned #	ETOH ✓	Envelope ✓	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)	Abundant (51-100)	Super- Abundant (>100)	
<u>Hymenoptera</u>	<u>1</u>		✓								✓						<u>Yellow Wg. Chd</u>
<u>Odonata</u>	<u>1</u>		✓														<u>like # 2154</u>
<u>Odonata</u>	<u>2</u>		✓														<u>like # 2157</u>
<u>Diptera</u>	<u>1</u>				✓						✓						<u>like # 286</u>
<u>Diptera</u>	<u>2</u>				✓						✓						<u>like # 1308</u>
<u>Hymenoptera</u>	<u>2</u>				✓						✓						<u>like # 709</u>
<u>Diptera</u>	<u>3</u>				✓						✓						<u>like # 1255</u>
<u>Diptera</u>	<u>4</u>				✓						✓						<u>like # 989 gr. gnat</u>
<u>Diptera</u>	<u>5</u>				✓						✓						<u>like # 2077 blk gnat</u>
<u>Diptera</u>	<u>6</u>				✓						✓						<u>like # 1135</u>
<u>Odonata</u>	<u>3</u>		✓								✓						<u># 704 yellow dragon</u>
<u>Odonata</u>	<u>4</u>		✓								✓						<u># 721 blue dragon</u>
																	<u># 709 yellow wasp</u>

Research AWPf Invertebrate Collection Sheet

 Site Name: Yew

 Location: Rest Rip In 3

 Date: 7/10/08

 Form: of

 Comments:
Malaise Trap

 Date: 7/11/08

 Set Time: 0743

 Set Temp. (°C): 29

 Set % Cloud Cover: 80%

 Set Wind: 5 mph

 # of Envelopes: 1

 Removal Time: 1935

 Removal Temp. (°C): 34

 Removal % Cloud Cover: 30%

 Removal Wind: 2 mph

 Number of Vials:
Timed Area Search

 Date: 7/11/08

 Start Time: 955

 Stop Time: 1055

 Temperature: 35°

 # of Envelopes:

 Number of Vials:

 % Cloud Cover: 70%

 Wind Speed: 5 mph
UV Light

 Date: 7/10/08

 Start Time: 2010

 Stop Time: 2132

 Set Temp. (°C): 34°

 Set % Cloud Cover: 90%

 Set Wind: 3 mph
Observed Species

Order	Family	Genus and Species	Collection Method				Preservation					Count					Comments
			Spot	UV	Malaise	Pit Trap	Pinned #	ETOH	Envelope	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)	Abundant (51-100)	Super-Abundant (>100)	
Diptera					✓							✓					like #461
Diptera					✓							✓					like #286
Diptera					✓							✓					like #989 green gnat
Diptera					✓					2070			✓				like #796
Hemiptera					✓			1		2071		✓					leaf hopper
Hymenoptera					✓							✓					like #534 yellow wasp
Hymenoptera	Cecada		✓									✓					same as #492
Coleoptera	Scarabidae			✓								✓					like #111, June bug
Coleoptera				✓								✓					like #246, med. br. weevil
Coleoptera				✓								✓					like #502, med. blk beetle
Hymenoptera				✓								✓					like #598
Hymenoptera	Mycmelenitid			✓								✓					like #1735
Coleoptera				✓								✓					like #262, diving beetle
Hymenoptera				✓								✓					like #156, ant w/ wings
Hymenoptera				✓								✓					like #1771, fuzzy Androm.
Coleoptera				✓								✓					like #565
Lepidoptera				✓								✓					like #1078, small green moth
Coleoptera				✓								✓					like #739, min beetle
Hemiptera				✓								✓					like #2138, leaf hopper
Lepidoptera				✓								✓					like #1078, gray moth
Lepidoptera				✓								✓					like #890, med. moth
Coleoptera				✓								✓					like #219, sm. beetle
Hymenoptera				✓								✓					like #289, sm. wasp
Coleoptera				✓								✓					like #1649
Diptera				✓								✓					like #834, small fly
Hemiptera				✓								✓					like #1736, ?

ments: _____

Malaise Trap
 Date: 07 July 08
 Time: 8:10am
 Set Temp. (°C): 30°C Set % Cloud Cover: 0% Set Wind: 0 mph # of Envelopes: 1
 Removal Time: 19H Removal Temp. (°C): 34°C Removal % Cloud Cover: 50% Removal Wind: 3-10 mph Number of Vials: 0

Red Area Search
 Date: 07 July 08
 Time: 7:10 am Stop Time: 8:10am Temperature: 30°C
 Envelopes: 1 Number of Vials: 0 % Cloud Cover: 0% Wind Speed: 0 mph

Light
 Date: 7/8/08 Stop Time: _____ Set Temp. (°C): 34° Set % Cloud Cover: 0% Set Wind: 0 mph

Observed Species

	Family	Genus and Species	Collection Method				Preservation					Count					Comments
			Spot ✓	UV ✓	Malaise ✓	Pit Trap ✓	Pinned #	ETOH ✓	Envelope ✓	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)	Abundant (51-100)	Super- Abundant (>100)	
1	Scorabidae			✓						✓		✓				Same as 111	
2	Scorabidae			✓						✓		✓				Same as 209	
3				✓						✓		✓				Same as 1922	
4				✓					2041			✓				Small Tan Roac	
5				✓					131			✓				Redish Beetle	
6				✓						✓	✓					Like 1080	
7				✓						✓		✓				Like 123	
8				✓						✓		✓				Like 124	
9				✓					2043		✓					Small dark was	
10				✓						✓		✓				Same as 18	
11	Mantidae			✓				✓	2044		✓					Mantis	
12				✓					2045		✓					Same as	
13	Homoptera			✓						✓	✓	✓				Leaf Hopper Like	
14				✓						✓	✓		✓			Lady bug	
15				✓						✓			✓			Like 147	
16	lateridae			✓						✓	✓					like 1206, click beetle	
17				✓						✓	✓	✓				like 545, long tan be	
18				✓						✓	✓					like 512, blk Ph	
19				✓						✓		✓				like 598, termite	
20				✓						✓		✓				like 156,	
21				✓						✓						like 119,	
22				✓					2085		✓					tan w/ blk on trion	
23				✓					2087								

Family	Genus and Species	Collection Method			Preservation				Count				Comments
		Spot	UV	Pit	Envelope	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)	Abundant (51-100)	Super-Abundant (>100)	
1		✓	✓				✓				✓		like # 1023
11	<i>Zepidopoda</i>	✓	✓				✓				✓		like # 1744
10		✓	✓				✓						small beetle
8		✓	✓				✓						like # 132
3		✓	✓				✓				✓		like # 1871
12		✓	✓				✓						like # 649
13		✓	✓				✓						like # 1904
9		✓	✓				✓						like # 415 in herbar
10		✓	✓				✓						like # 1607, red and
2			✓				✓						like # 280
3			✓				✓						like # 790
4			✓				✓						like # 1137
11			✓				✓						like # 1584
5			✓				✓						like # 1470
12			✓				✓						like # 797
6			✓				✓						like # 744, red fly
7			✓				✓						like # 2104, blk xanth
4			✓				✓						like # 2077, blk gn
9			✓				✓						like # 989, grn. gn.

Research AWP Invertebrate Collection Sheet

Site Name: YLVW Location: Rest Rd mat #6 Date: 7/7/08 Form: of

Comments: _____

Malaise Trap Date: 7/7/08
 Set Time: 723 Set Temp. (°C): 30° Set % Cloud Cover: 0% Set Wind: 0 mph # of Envelopes: 1
 Removal Time: 1903 Removal Temp. (°C): 42° Removal % Cloud Cover: 50% Removal Wind: 10-12 mph Number of Vials: 0

Timed Area Search Date: 7/7/08
 Start Time: 727 Stop Time: 827 Temperature: 30°
 # of Envelopes: 1 Number of Vials: 0 % Cloud Cover: 0% Wind Speed: 0 mph

UV Light Date: 7/8/08
 Start Time: 2034 Stop Time: _____ Set Temp. (°C): 330 Set % Cloud Cover: 0% Set Wind: 2 mph

Observed Species

Order	Family	Genus and Species	Collection Method				Preservation				Count					Comments	
			Spot	UV	Malaise	Pit Trap	Pinned #	ETOH	Envelope	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)	Abundant (51-100)		Super-Abundant (>100)
Diptera	Asilidae	1			✓							✓	✓				Robber Fly like # 461
Diptera		2			✓							✓	✓				striped fly → # 1210
Diptera		3			✓							✓	✓				Blk Fly → # 512
Hymenoptera		1			✓							✓	✓				Red Ant # 1676
Diptera		4			✓							✓		✓			Green gnat # 989
Diptera		6			✓			1	2					✓			Blk gnat
Diptera		5			✓			2	2					✓			Blk gnat
Hymenoptera		7			✓			1						✓			# 360
Lepidoptera		1			✓			1						✓			unknown
Hemiptera		1			✓									✓	✓		tan leaf hopper
Diptera		1	✓									✓	✓				like # 461
Hymenoptera		3	✓					1	2					✓			small blk bee # 838
Hymenoptera		3	✓					2	2					✓			like # 838
Hymenoptera		1	✓									✓		✓			like # 1667, red ant
Diptera		5	✓									✓	✓				like # 2077
Coleoptera		1	✓									✓	✓				like # 1904, mol. beetle
Coleoptera		2	✓					1						✓			small gray weevil
Lepidoptera		2	✓					1						✓			little blue, silvery

Research AWPf Invertebrate Collection Sheet

 Site Name: Yew

 Location: Rest Wet 1

 Date: 7/10/08

Form: ___ of ___

Comments: _____

Malaise Trap		Date: <u>7/11/08</u>	Set Time: <u>0813</u>	Set Temp. (°C): <u>30°</u>	Set % Cloud Cover: <u>80%</u>	Set Wind: <u>3 mph</u>	# of Envelopes: <u>1</u>
Removal Time: <u>1925</u>	Removal Temp. (°C): <u>35°</u>	Removal % Cloud Cover: <u>30%</u>	Removal Wind: <u>3 mph</u>	Number of Vials: <u>2</u>			

Timed Area Search		Date: <u>7/11/08</u>	Start Time: <u>1100</u>	Stop Time: <u>1200</u>	Temperature: <u>34°</u>	# of Envelopes: <u>1</u>	Number of Vials: _____	% Cloud Cover: <u>50%</u>	Wind Speed: <u>2 mph</u>
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UV Light		Date: <u>7/10/08</u>	Start Time: <u>2146</u>	Stop Time: <u>2146</u>	Set Temp. (°C): <u>33°</u>	Set % Cloud Cover: <u>90%</u>	Set Wind: <u>3 mph</u>
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Observed Species

Order	Family	Genus and Species	Collection Method				Preservation					Count					Comments
			Spot	UV	Malaise	Pit Trap	Pinned #	ETOH	Envelope	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)	Abundant (51-100)	Super-Abundant (>100)	
Hymenoptera					✓				2073		1					Small black wasp	
Diptera					✓				1177				✓			small green fly	
Diptera 2					✓				1643			✓				small black/grey fly	
Diptera 3					✓				461		1					Redback fly	
Diptera 4					✓				291		2					black fly	
Diptera 5					✓				1023		1						
Hymenoptera					✓				1143								
Hemiptera	Nepidae		✓					✓	2086		✓					Water scorpion	
odonata			✓								✓	✓				like #951, green thorax	
Hymenoptera			✓								✓	✓				like #1985, thin stripe abd	
Orthoptera			✓						2047							green w/ cone antennae	
Coleoptera	Scarabidae			✓							✓	✓				like #111, June bug	
Hymenoptera	1			✓							✓		✓			like #598	
Lepidoptera	1			✓							✓		✓			like #1871	
Hymenoptera	2			✓							✓	✓				like #1771	
Hymenoptera	3			✓							✓	✓				like #156	
Orthoptera	1			✓				1	2048		✓	✓				patchy grey	
Diptera	1			✓				102	2049		✓					like #1137	
Diptera	1			✓				202	2050		✓					like #1937	
odonata	1			✓							✓	✓				like #951	
Trichoptera	1			✓							✓		✓			like #233	
Diptera	2			✓							✓		✓			like #296	
Lepidoptera	2			✓							✓			✓		like #1078	
Coleoptera	1			✓							✓		✓			like #545	
Hemiptera	1			✓							✓	✓				like #1215	
Homoptera	1			✓				1	2053		✓					cone nose leafhopper	
Hemiptera	Reduviidae 2			✓					2054		✓					Kissing bug	
Coleoptera	2			✓				1	2055						✓	like #262	
Diptera	03			✓							✓		✓			like #1659	
Collembola	2			✓							✓		✓			like #1004	

Research AWPf Invertebrate Collection Sheet

Site Name: Yew Location: Rip con 2 Date: 7/9/08 Form: of

Comments: _____

Malaise Trap Date: 7/10/08
 Set Time: 430 Set Temp. (°C): 39.0 Set % Cloud Cover: 90% Set Wind: 0 # of Envelopes: _____
 Removal Time: 2107 Removal Temp. (°C): 33.0 Removal % Cloud Cover: 90% Removal Wind: 5 mph Number of Vials: _____

Timed Area Search Date: 7/10/08
 Start Time: 1120 Stop Time: _____ Temperature: 33.0
 # of Envelopes _____ Number of Vials: _____ % Cloud Cover: 95% Wind Speed: 3-5 mph

UV Light Date: 7/9/08
 Start Time: 1957 Stop Time: 3110 Set Temp. (°C): 33.0 Set % Cloud Cover: 25% Set Wind: 2 mph

Observed Species

Order	Family	Genus and Species	Collection Method				Preservation				Count					Comments		
			Spot	UV	Malaise	Pit Trap	Pinned #	ETOH	Envelope	ID Number	None	1	2	Few (3-20)	Medium (21-50)		Abundant (51-100)	Super-Abundant (>100)
Odonata	1		✓															Same as 721
Odonata	2		✓															Same as 1067
Odonata	3		✓															Same as 1293
Hymenoptera	1		✓															Same as 1067
Hymenoptera	2			✓														like # 598, termite
Coleoptera	1			✓														like # 111, June bug
Coleoptera	2			✓														like # 240
Coleoptera	3			✓														like # 695
Coleoptera	4	Curculionidae		✓														like # 562
Coleoptera	5			✓														like # 262
Coleoptera	6			✓														like # 1904
Coleoptera	7			✓														gray beetle, blk eyes
Coleoptera	8			✓														gray beetle, blk eyes
Coleoptera	9			✓														like # 258
Coleoptera	10			✓														like # 565
Hymenoptera	3			✓														like # 156, winged ant
Coleoptera	10			✓														like # 2060
Hymenoptera	4			✓														like # 1771
Hymenoptera	5			✓														like # 1213, lg gill leafhopper
Coleoptera	11			✓														blk ant w/ wings, # 830
Lepidoptera	1			✓														like # 649, small beetle
Lepidoptera	2			✓														like # 1744
Lepidoptera	3			✓														like # 1187
Coleoptera	12			✓														like # 1078
Lepidoptera	1			✓														like # 739
Hymenoptera	2			✓														like # 1744
				✓														like # 2067, cone leafhopper

Research AWPf Invertebrate Collection Sheet

Site Name: YEW Location: Wet Con 2 Date: 9/22/08 Form: of
 Comments: _____

Malaise Trap Date: 9/22/08
 Set Time: 915 Set Temp. (°C): 31° Set % Cloud Cover: 51 Set Wind: 0 mph # of Envelopes: _____
 Removal Time: 1905 Removal Temp. (°C): 30° Removal % Cloud Cover: 0 Removal Wind: 0 Number of Vials: _____

Timed Area Search Date: 9/22/08
 Start Time: 915 Stop Time: 1015 Temperature: 32°
 # of Envelopes: 1 Number of Vials: _____ % Cloud Cover: 51 Wind Speed: 0 mph

UV Light Date: _____
 Start Time: _____ Stop Time: _____ Set Temp. (°C): _____ Set % Cloud Cover: _____ Set Wind: _____

Observed Species

Order	Family	Genus and Species	Collection Method				Preservation					Count				Comments #1986
			Spot ✓	UV ✓	Malaise ✓	Pit Trap ✓	Pinned #	ETOH ✓	Envelope ✓	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)	Abundant (51-100)		Super- Abundant (>100)
Diptera	1				✓						✓					like # 513 , gr/ld metallic
Diptera	2				✓						✓		✓			like # 513, stripes on thor
Diptera	3				✓						✓					like # 809, gray
Lepidoptera	1				✓						✓	✓				like # 423, gray moth
Hymenoptera	1				✓						✓	✓				like # 417, yellow wasp
Hymenoptera	2				✓						✓	✓				like # 634, thin wasp
Hymenoptera	3				✓						✓	✓				like # 401
Hymenoptera	4				✓						✓	✓				like # 1307,
Diptera	4				✓						✓					like # 989, grn gnat
Diptera	5				✓						✓		✓			like # 2077, blk gnat
Diptera	6 Culicidae				✓						✓					like # 1508
Diptera	7				✓						✓		✓			like # 2170, microscopic
Hymenoptera					✓						✓	✓				like # 1354, long hind leg
Diptera	2		✓								✓	✓				like # 513, lg. stripes
Odonata	1		✓					✓		2191		✓				golden damselfly
Odonata	2		✓					✓		2192		✓				praganta purple dragon
Arachnid	1		✓					✓		2193		✓				

Research AWPf Invertebrate Collection Sheet

Site Name: YEW Location: Wet Con 3 Date: 9/22/08 Form: of
 Comments:

Malaise Trap Date: 9/22/08
 Set Time: 930 Set Temp. (°C): 30 ~~31~~ Set % Cloud Cover: 01 Set Wind: 0 mph # of Envelopes: 1
 Removal Time: 1945 Removal Temp. (°C): 29 Removal % Cloud Cover: 01 Removal Wind: 0 mph Number of Vials:

Timed Area Search Date: 9/22/08
 Start Time: 930 Stop Time: 1030 Temperature: 32
 # of Envelopes: 1 Number of Vials: % Cloud Cover: 0 Wind Speed: 0 mph

UV Light Date: 9/22/08
 Start Time: 1950 Stop Time: 1955 Set Temp. (°C): 28 Set % Cloud Cover: 0 Set Wind: 0

Observed Species

Order	Family	Genus and Species	Collection Method				Preservation				Count					Comments	
			Spot	UV	Malaise	Pit Trap	Pinned #	ETOH	Envelope	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)	Abundant (51-100)		Super-Abundant (>100)
Hymenoptera	1 Apidae		✓								✓	✓					like # 1273, honey bee
Odonata	1		✓								✓	✓					like # 1161, damselfly
Odonata	2				✓						✓	✓					like # 951, grn damselfly
Diptera	1				✓						✓	✓					like # 461, rostron fly
Diptera	2				✓						✓	✓					like # 989, gnat
Diptera	3				✓						✓	✓					like # 2077, blk gnat
Coleoptera	1				✓						✓	✓					like # 1131,
Diptera	4				✓						✓	✓					like # 2169
Diptera	6				✓						✓	✓					like # 2170
Coleoptera	2			✓							✓	✓					like # 1111, junco bug
Coleoptera	3			✓							✓	✓					like # 259
Coleoptera	4			✓							✓	✓					like # 739
Lepidoptera	1			✓							✓	✓					like # 1455
Odonata	3 Gomphidae		✓								✓	✓					like # 1333
Coleoptera	5			✓							✓	✓					like # 649
Coleoptera	6			✓							✓	✓					like # 2130
Coleoptera	7			✓							✓	✓					like # 2168
Coleoptera	8			✓							✓	✓					like # 2168
Lepidoptera	2			✓							✓	✓					like # 280
Lepidoptera	3			✓							✓	✓					like # 1228
Lepidoptera	4			✓							✓	✓					like # 947
Lepidoptera	5			✓							✓	✓					like # 946
Lepidoptera	6			✓							✓	✓					like # 1235
Coleoptera	8			✓							2239	✓					5 green elytra
Coleoptera	9			✓							2240	✓					2 black legs, small head

Research AWPf Invertebrate Collection Sheet

Site Name: YEW Location: Rip Con 2 Date: 9/22/08 Form: of
 Comments:

Malaise Trap Date: 9/22/08
 Set Time: 9:25 Set Temp. (°C): 31° Set % Cloud Cover: 0 Set Wind: 0 # of Envelopes: 1
 Removal Time: 1900 Removal Temp. (°C): 28 Removal % Cloud Cover: 0 Removal Wind: 0 Number of Vials:

Timed Area Search Date: 9/22/08
 Start Time: 9:35 Stop Time: 10:35 Temperature: 34
 # of Envelopes: Number of Vials: % Cloud Cover: 0 Wind Speed: 0

UV Light Date: 9/22/08
 Start Time: 1900 Stop Time: 2007 Set Temp. (°C): 28 Set % Cloud Cover: 0 Set Wind: 0

Observed Species

Order	Family	Genus and Species	Collection Method				Preservation				Count				Comments	
			Spot	UV	Malaise	Pit Trap	Pinned #	ETOH	Envelope	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)		Abundant (51-100)	Super-Abundant (>100)
Diptera	1				✓						✓		✓			like # 989, green snail
Diptera	2				✓						✓		✓			like # 2077, black snail
Diptera	3	Culicidae			✓						✓		✓			like # 11058, mosquito
Homoptera	1				✓						✓	✓				like # 2133, green (Flapper)
Diptera	4				✓						✓		✓			like # 809
Odonata	1		✓								✓	✓				like # 1333
Odonata	2		✓								✓	✓				like # 730
Hymenoptera	1			✓							✓		✓			like # 1784
Coleoptera	1			✓							✓	✓				like # 977
Lepidoptera	1			✓							✓			✓		like # 1455
Coleoptera	2			✓							✓		✓			like # 1204
Coleoptera	3			✓					1	2244	✓		✓			brown + tan elytra
Lepidoptera	2			✓							✓		✓			like # 1887
Lepidoptera	3			✓							✓		✓			like # 1459
Coleoptera	4			✓							✓		✓			like # 745
Coleoptera	5			✓							✓		✓			like # 2108
Coleoptera	6			✓							✓		✓		✓	like # 2239
Coleoptera	7			✓							✓		✓			like # 739
Trichoptera	1			✓							✓		✓		✓	like # 233
Diptera	4			✓							✓		✓			like # 2182
Diptera	5			✓							✓		✓			like # 837
Diptera	6			✓							✓		✓			like # 2184
Diptera	7			✓							✓		✓			like # 989, green snail
Lepidoptera	4			✓							✓		✓			like # 1077
Coleoptera	8			✓							✓		✓			like # 695
Homoptera	2			✓							✓	✓				like # 2071
Homoptera	3			✓							✓	✓				like # 1130
Coleoptera	9			✓							✓		✓		✓	like # 739

Human
restroom

Research AWPf Invertebrate Collection Sheet

 Site Name: Yew

 Location: Rip con 5

 Date: 9/21/08

Form: ___ of ___

Comments: _____

Malaise Trap

 Date: 9/21/08

 Set Time: 8:48

 Set Temp. (°C): 29

 Set % Cloud Cover: 0

 Set Wind: 0

 # of Envelopes: 1

 Removal Time: 1428

 Removal Temp. (°C): 29.30

 Removal % Cloud Cover: 0

 Removal Wind: 0

Number of Vials: _____

Timed Area Search

 Date: 9/21/08

 Start Time: 955

 Stop Time: 1055

 Temperature: 29°

 # of Envelopes: 1

Number of Vials: _____

 % Cloud Cover: 01

 Wind Speed: 1-2 mph
UV Light

Date: _____

Start Time: _____

Stop Time: _____

Set Temp. (°C): _____

Set % Cloud Cover: _____

Set Wind: _____

Observed Species

Order	Family	Genus and Species	Collection Method				Preservation				Count				Comments		
			Spot	UV	Malaise	Pit Trap	Pinned #	ETOH	Envelope	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)		Abundant (51-100)	Super-Abundant (>100)
Diptera	1				✓						✓	✓					Same as # 809
Diptera	2				✓						✓			✓			like # 989, green
Diptera	3				✓						✓		✓				like # 2077, blk. gnats
Coleoptera	1				✓		✓		2108		✓	✓					very small beetle
Coleoptera	2				✓						✓	✓					like # 1131
Diptera	4 Culicidae				✓						✓		✓				Same as # 1658
Hymenoptera	1				✓						✓	✓					like # 837
Odonata	1 Gomphidae		✓								✓	✓					like # 1336, green
Odonata	2		✓								✓	✓					like # 1333, red dot

Research AWPf Invertebrate Collection Sheet

Site Name: YEW Location: Rip Con 4 Date: 9/23/08 Form: of
 Comments: _____

Malaise Trap Date: 9/23/08
 Set Time: 950 Set Temp. (°C): ~~30~~ 31° Set % Cloud Cover: 0 Set Wind: 0 # of Envelopes: _____
 Removal Time: 1250 Removal Temp. (°C): 30° Removal % Cloud Cover: 0 Removal Wind: 0 Number of Vials: _____

Timed Area Search Date: 9/23/08
 Start Time: 950 Stop Time: 1050 Temperature: ~~30~~ 31°
 # of Envelopes: 1 Number of Vials: _____ % Cloud Cover: 0 Wind Speed: 0

UV Light Date: _____
 Start Time: _____ Stop Time: _____ Set Temp. (°C): _____ Set % Cloud Cover: _____ Set Wind: _____

Observed Species

Order	Family	Genus and Species	Collection Method				Preservation				Count				Comments	
			Spot ✓	UV ✓	Malaise ✓	Pit Trap ✓	Pinned #	ETOH ✓	Envelope ✓	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)		Abundant (51-100)	Super- Abundant (>100)
Hymenoptera	1 Apidae				✓											like # 1273, honey bee
Diptera	1				✓						✓					like # 989, gn gn gn
Diptera	2				✓						✓					like # 2097, blk gn gn
Diptera	3				✓						✓					like #
Hymenoptera	2				✓						✓					like # 837
Diptera	4				✓			✓		2170	✓	✓				very small gn gn
Lepidoptera	1		✓								✓	✓				like # 423
Odonata	1		✓								✓	✓				like # 950
Hymenoptera	3		✓								✓	✓				like # 1474, gn gn
Diptera	5		✓					1 of 2		2194						bee look a like
Diptera	5		✓					2 of 2		2195						bee look a like
Diptera	6				✓			1		2109				✓		look like aphid

Research AWPf Invertebrate Collection Sheet

Site Name: YEW Location: Res Rip 1 Date: 9/21/08 Form: of
 Comments: _____

Malaise Trap Date: 9/21/08
 Set Time: 034 Set Temp. (°C): 29° Set % Cloud Cover: 0% Set Wind: 1 mph # of Envelopes: _____
 Removal Time: 1950 Removal Temp. (°C): 30° Removal % Cloud Cover: 0% Removal Wind: 0 mph Number of Vials: _____

Timed Area Search Date: 9/21/08
 Start Time: 835 Stop Time: 935 Temperature: 28°
 # of Envelopes: 1 Number of Vials: _____ % Cloud Cover: 0% Wind Speed: 2 mph

UV Light Date: _____
 Start Time: _____ Stop Time: _____ Set Temp. (°C): _____ Set % Cloud Cover: _____ Set Wind: _____

Observed Species

Order	Family	Genus and Species	Collection Method				Preservation				Count				Comments	
			Spot ✓	UV ✓	Malaise ✓	PK Trap ✓	Pinned #	ETOH ✓	Envelope ✓	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)		Abundant (51-100)
Odonata	1		✓							✓	✓					like # 933, blue dragon
Odonata	2		✓							✓	✓					like # 1387
Odonata	3		✓							✓	✓					like # 703
Odonata	4		✓				✓									like # 2175
Diptera	1				✓						✓		✓			like # 1216
Hymenoptera	1	Formicidae			✓						✓		✓			like # 1090, red ant
Odonata	5				✓						✓	✓				like # 1110, tan damsel
Hymenoptera	2				✓						✓	✓				like # 634
Hymenoptera	3				✓						✓	✓				like # 401
Diptera	2				✓						✓		✓			like # 989, green gnat
Diptera	3				✓						✓		✓			like # 2077 2077
Diptera	4				✓						✓		✓			like # 2182
Diptera	5				✓						✓		✓			like # 2190
Diptera	10				✓						✓		✓			like # 2170
Blattella	1				✓						✓	✓				like # 594, cockroach

HR

Research AWPf Invertebrate Collection Sheet

 Site Name: RR 101

 Location: RR 3

 Date: 9/2/08

Form: ___ of ___

Comments: _____

Malaise Trap		Date: <u>9/2/08</u>	Set Temp. (°C): <u>32°</u>	Set % Cloud Cover: <u>0</u>	Set Wind: <u>0</u>	# of Envelopes: <u>1</u>
Set Time: <u>9:00</u>	Removal Time: <u>18:40</u>	Removal Temp. (°C): <u>28°</u>	Removal % Cloud Cover: <u>0</u>	Removal Wind: <u>0</u>	Number of Vials: _____	

Timed Area Search		Date: <u>9/2/08</u>	Temperature: <u>32°</u>
Start Time: <u>9:00</u>	Stop Time: <u>10:20</u>	% Cloud Cover: <u>0</u>	Wind Speed: <u>0</u>
# of Envelopes: _____	Number of Vials: _____		

UV Light		Date: <u>9/2/08</u>	Set Temp. (°C): <u>31°</u>	Set % Cloud Cover: <u>0</u>	Set Wind: <u>0</u>
Start Time: <u>1935</u>	Stop Time: <u>2035</u>				

Observed Species

Order	Family	Genus and Species	Collection Method				Preservation				Count				Comments	
			Spot	UV	Malaise	Pit Trap	Pinned #	ETOH	Envelope	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)		Abundant (51-100)
Diptera	1	Asilidae			✓						✓	✓				like # 401
Diptera	2				✓						✓		✓			like # 959
Diptera	3				✓						✓		✓			like # 2097
Diptera	4				✓						✓	✓				like # 1147
Diptera	5				✓						✓		✓			like # 809
Coleoptera	1				✓						✓		✓			like # 1131
Hymenoptera	1				✓						✓	✓				like # 431, gen of wasp
Hymenoptera	1				✓						✓	✓				like # 11074
Lepidoptera	1				✓						✓	✓				like # 423
Hymenoptera	2		✓								✓	✓				like # 1842
Hymenoptera	3		✓								✓	✓				like # 838
Odonata	1		✓								✓	✓				like # 1326, gen dragon
Coleoptera	1		✓								✓	✓				like # 1131
Orthoptera	1			✓							✓	✓				like # 1841, cricket
Coleoptera	2			✓									✓			like # 1841
Coleoptera	2			✓									✓			
Hymenoptera	Myrmecinae			✓							✓	✓				like # 241
Hymenoptera	4			✓							✓	✓	✓			like # 1787
Coleoptera	3			✓							✓	✓				like # 112
Coleoptera	4			✓							✓	✓				like # 1079
Coleoptera	3			✓							✓	✓				like # 112
Coleoptera	5			✓							✓	✓	✓			like # 1587
Coleoptera	6			✓							✓	✓				like # 1899
Coleoptera	7			✓							✓	✓				like # 249
Coleoptera	8			✓							✓	✓				like # 1223
Coleoptera	9			✓							✓	✓				like # 1586
Coleoptera	10			✓							✓	✓				like # 1204

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Research AWPF Invertebrate Collection Sheet

Site Name: VEN Location: Ag Date: 9/24/08 Form: of
 Comments: Ag fields base of vegetation, no spot search

Malaise Trap Date: 9/24/08
 Set Time: 825 Set Temp. (°C): 35° Set % Cloud Cover: 0% Set Wind: 0 # of Envelopes:
 Removal Time: 1843 Removal Temp. (°C): 34° Removal % Cloud Cover: 5% Removal Wind: 1 mph Number of Vials:

Timed Area Search Date:
 Start Time: Stop Time: Temperature:
 # of Envelopes: N/A Number of Vials: % Cloud Cover: Wind Speed:

UV Light Date: 9/24/08
 Start Time: 1900 Stop Time: 2000 Set Temp. (°C): 34° Set % Cloud Cover: 5% Set Wind: 0

Observed Species

Order	Family	Genus and Species	Collection Method				Preservation				Count					Comments	
			Spot	UV	Malaise	Pit Trap	Pinned	ETOH	Envelope	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)	Abundant (51-100)		Super-Abundant (>100)
Lepidoptera	1				✓						✓		✓				like # 1455
Hymenoptera	1				✓						✓		✓				like # 401
Diptera	1				✓						✓		✓				like # 513
Diptera	2				✓									✓			like # 989, green ant
Coleoptera	1				✓						✓		✓				like # 1131
Coleoptera	2				✓						✓		✓				like # 2129
Diptera	3				✓						✓		✓				like # 2170
Diptera	4				✓						✓		✓				like # 2190
Diptera	5				✓						✓		✓				like # 2192
					N/A												
Coleoptera	1			✓							✓					✓	like # 259
Coleoptera	2			✓							✓		✓				like # 977, brown
Orthoptera	1			✓							✓		✓				like # 1849, cricket
Orthoptera	2			✓							✓	✓					like # 1740, grasshopper
Coleoptera	3			✓							✓		✓				like # 1207
Coleoptera	4			✓							✓		✓				like # 1204
Coleoptera	5			✓							✓		✓				like # 1172
Coleoptera	6			✓							✓			✓			like # 2239
Coleoptera	7			✓							✓			✓			like # 2204
Hymenoptera	1			✓							✓		✓				like # 598, termite
Coleoptera	8			✓							✓		✓				like # 1131
Coleoptera	9			✓							✓		✓				like # 685
Hemiptera	1			✓							✓		✓				like # 20056
Hemiptera	2			✓							✓		✓				like # 2114
Coleoptera	10			✓							✓		✓		✓		like # 20060
Lepidoptera	1			✓							✓		✓				like # 1887
Lepidoptera	2			✓							✓		✓				like # 1959
Lepidoptera	3			✓							✓		✓			✓	like # 1456

Research AWPf Invertebrate Collection Sheet

Site Name: VEW Location: Res Wet 2 Date: 9/20/08 Form: of

Comments: _____

Malaise Trap Date: 9/20/08
 Set Time: 910 Set Temp. (°C): ~~30~~ 31° Set % Cloud Cover: 0 Set Wind: 5 mph # of Envelopes: _____
 Removal Time: 1940 Removal Temp. (°C): 32° Removal % Cloud Cover: 51 Removal Wind: 0 mph Number of Vials: _____

Timed Area Search Date: 9/20/08
 Start Time: 910 Stop Time: 1010 Temperature: ~~30~~ 32°
 # of Envelopes: 1 Number of Vials: 1 % Cloud Cover: 0 Wind Speed: 2 mph

UV Light Date: _____
 Start Time: _____ Stop Time: _____ Set Temp. (°C): _____ Set % Cloud Cover: _____ Set Wind: _____

Observed Species			Collection Method				Preservation				Count					Comments	
Order	Family	Genus and Species	Spot ✓	UV ✓	Malaise ✓	Pit Trap ✓	Pinned #	ETOH ✓	Envelope ✓	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)	Abundant (51-100)		Super- Abundant (>100)
Odonata	1		✓					✓		2171							
Odonata	2		✓					✓		2172							
Odonata	3		✓					✓		2173							
Amphibia Odonata	4		✓		✓						✓	✓					like # 1110
Odonata	5		✓								✓	✓					like # 1038
Orthoptera	1		✓				✓			2178		✓					like # 2116
Orthoptera	2		✓							2179		✓					like # 2116
Orthoptera	3		✓							2180		✓					green grasshopper
Orthoptera	4		✓								✓	✓					like # 1351
Lepidoptera	1				✓						✓	✓					like # 423
Diptera	1				✓						✓			✓			like # 1216
Diptera	2				✓						✓			✓			like # 989, cyan great
Diptera	3				✓						✓		✓				like # 2077, blk great
Collembola	1				✓						✓		✓				like # 1131
Diptera	4				✓						✓	✓					like # 781
Hymenoptera	1				✓		✓				✓	✓					

Research AWPf Invertebrate Collection Sheet

Site Name: YEW Location: Res Wet 4 Date: 9/20/08 Form: of
 Comments:

Malaise Trap Date: 9/20/08
 Set Time: 915 Set Temp. (°C): ~~30~~ 31° Set % Cloud Cover: 0 Set Wind: 0 # of Envelopes:
 Removal Time: 1924 Removal Temp. (°C): 27° Removal % Cloud Cover: 51 Removal Wind: 0 Number of Vials:

Timed Area Search Date: 9/20/08
 Start Time: 915 Stop Time: 1015 Temperature: ~~30~~ 32°
 # of Envelopes: Number of Vials: % Cloud Cover: 0 Wind Speed: 0

UV Light Date:
 Start Time: Stop Time: Set Temp. (°C): Set % Cloud Cover: Set Wind:

Observed Species

Order	Family	Genus and Species	Collection Method				Preservation				Count					Comments			
			Spot	UV	Malaise	Pit Trap	Pinned #	ETOH	Envelope	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)	Abundant (51-100)		Super-Abundant (>100)		
Odonata			✓																
Odonata			✓								✓	✓							like # 703
Lepidoptera					✓														like # 423
Diptera					✓							✓							like # 513, la stripes
Diptera					✓										✓				like # 1216 sm. stripe
Diptera					✓														like # 809, gray fly
Odonata					✓														like # 1101, bl. dorsal
Diptera	culicidae				✓										✓				like # 1658, mosquito
Lepidoptera					✓						2181				✓				tiny moth, dark spots on wings
Hymenoptera					✓										✓				like # 401
Hymenoptera					✓										✓				like # 634
Hymenoptera					✓						2182				✓				
Hymenoptera					✓										✓				like # 837
Diptera					✓										✓				
Diptera					✓						2183								like # 989, gray gnat
Diptera					✓										✓				like # 2097, blk gnat

Research AWPf Invertebrate Collection Sheet

Site Name: YEW Location: Res Wet 1 Date: 9/20/08 Form: 1 of 2
 Comments: _____

Malaise Trap Date: 9/20/08
 Set Time: 9:00 Set Temp. (°C): ~~30~~ 31° Set % Cloud Cover: 0 Set Wind: 0 # of Envelopes: _____
 Removal Time: 19:10 Removal Temp. (°C): 32 Removal % Cloud Cover: 51 Removal Wind: 0 Number of Vials: _____

Timed Area Search Date: 9/20/08
 Start Time: 10:20 Stop Time: 11:20 Temperature: ~~30~~ 34°
 # of Envelopes: 1 Number of Vials: _____ % Cloud Cover: 0 Wind Speed: 2

UV Light Date: 9/20/08
 Start Time: ~~19:15~~ 19:15 Stop Time: ~~20:20~~ 20:20 Set Temp. (°C): 32 Set % Cloud Cover: 51 Set Wind: 0

Observed Species

Order	Family	Genus and Species	Collection Method				Preservation				Count				Comments	
			Spot ✓	UV ✓	Malaise ✓	Pit Trap ✓	Pinned #	ETOH ✓	Envelope ✓	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)		Abundant (51-100)	Super- Abundant (>100)
Diptera	1				✓						✓					like # 513
Diptera	2				✓						✓					like # 512 blk fly
Diptera	3				✓						✓					like # 989, grn spot
Diptera	4				✓						✓					like # 2097, blk spot
Diptera	5				✓						✓					like # 2170, tiny
Hymenoptera	1				✓						✓	✓				like # 634
Orthoptera	1		✓					✓							2180	
Odonata	1		✓					✓							2183	
Coleoptera	1		✓					✓							2188	
Hymenoptera	2		✓					✓							2189	
Lepidoptera	1			✓							✓					small, blk wings
Lepidoptera	2			✓							✓	✓				like # 1887
Lepidoptera	3			✓							✓	✓				like # 280
Coleoptera	2			✓							✓	✓				like # 1459
Coleoptera	3			✓				✓							2203	large diving beetle
Orthoptera				✓				✓							2204	like # 202
Diptera	6			✓							✓					like # 1841, cricket
Odonata	2			✓							✓					like # 2049
Diptera	2			✓							✓					like # 1110, tiny damd
Trichoptera	1			✓							✓					like # 512
Hemiptera	1			✓							✓					like # 233, caddisfly
Hemiptera	2			✓							✓					like # 615
Hemiptera	1			✓							✓					like # 1215
Lepidoptera	4			✓							✓	✓				like # 2067
Hemiptera	3			✓							✓					like # 1455
Lepidoptera	5			✓				✓							2205	water boatman
Lepidoptera	6			✓				✓							2206	like # 1285
Coleoptera	4			✓							✓	✓				like # 1490
											✓					like # 259

Research AWPf Invertebrate Collection Sheet

Site Name: Yalen Location: Rest RIP 6 Date: 9/19/08 Form: of
 Comments:

Malaise Trap Date: 9/19/08
 Set Time: 10:04 Set Temp. (°C): ~~33~~ 23 Set % Cloud Cover: 0 Set Wind: 0 # of Envelopes:
 Removal Time: 1830 Removal Temp. (°C): ~~25~~ 20 Removal % Cloud Cover: 101 Removal Wind: 0 Number of Vials:

Timed Area Search Date: 9/19/08
 Start Time: 10:05 Stop Time: 11:05 Temperature: 39°
 # of Envelopes: 2 Number of Vials: % Cloud Cover: 0 Wind Speed: 0

UV Light Date:
 Start Time: Stop Time: Set Temp. (°C): Set % Cloud Cover: Set Wind:

Observed Species

Order	Family	Genus and Species	Collection Method				Preservation					Count					Comments
			Spot ✓	UV ✓	Malaise ✓	Pit Trap ✓	Pinned #	ETOH ✓	Envelope ✓	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)	Abundant (51-100)	Super- Abundant (>100)	
Coleoptera	1		✓								✓	✓					like #1839
Coleoptera	2		✓								✓	✓					like #2028
Coleoptera	3		✓					102		2176		✓					like #1302
Coleoptera	3		✓					202		2177		✓					
Diptera	1				✓						✓	✓					like #808
Diptera	2 Asilidae				✓						✓	✓					like #461, 1000s
Diptera	3				✓						✓	✓					like #2104, skinny
Diptera	4 Culicidae				✓						✓	✓					like #1658
Diptera	5				✓						✓	✓					like #989, gm gnat
Diptera	6				✓						✓	✓					like #2077, blk gnat
Diptera	7				✓						✓	✓					like #1364, 2000s
Coleoptera	4				✓						✓	✓					like #1131
Hymenoptera	1				✓						✓	✓					like #837
Hymenoptera	2				✓						✓	✓					like #917
Lepidoptera	1				✓						✓	✓					like #
Hymenoptera	3				✓						✓	✓					silver blue
Lepidoptera	1 Danaidae		✓							2216		✓					street queen

Research AWPf Invertebrate Collection Sheet

 Site Name: Y WW

 Location: Res Rip Mat. 5

 Date: 9/19/08

 Form: of

 Comments:

Malaise Trap		Date: <u>9/19/08</u>	Set Temp. (°C): <u>33°</u>	Set % Cloud Cover: <u>0%</u>	Set Wind: <u>0 mph</u>	# of Envelopes: <u> </u>
Start Time: <u>1000</u>	Removal Time: <u>1440</u>	Removal Temp. (°C): <u>23°</u>	Removal % Cloud Cover: <u>10%</u>	Removal Wind: <u>0 mph</u>	Number of Vials: <u> </u>	

Timed Area Search		Date: <u>9/19/08</u>	Stop Time: <u>1102</u>	Temperature: <u>31°</u>	% Cloud Cover: <u>0</u>	Wind Speed: <u>0</u>
Start Time: <u>1002</u>	# of Envelopes: <u>1</u>	Number of Vials: <u> </u>				

UV Light		Date: <u> </u>	Set Temp. (°C): <u> </u>	Set % Cloud Cover: <u> </u>	Set Wind: <u> </u>
Start Time: <u> </u>	Stop Time: <u> </u>				

Observed Species			Collection Method				Preservation					Count					Comments	
			Spot	UV	Malaise	Pit Trap	Pinned #	ETOH	Envelope	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)	Abundant (51-100)	Super-Abundant (>100)		
Order	Family	Genus and Species	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Odonata					✓						✓	✓						like #1306, damselfly
Diptera	Asilidae				✓						✓	✓						like # 461, robber
Diptera					✓								✓					like # 513
Diptera					✓						✓	✓						like # 512
Diptera	Culicidae				✓						✓	✓						like # 11658, mosquito
Diptera					✓						✓		✓					like # 887, gnat
Diptera					✓						✓		✓					like # 2077, blk ant
Hymenoptera	Formicidae				✓						✓		✓					like # 11074, red ant
Hymenoptera					✓						✓	✓						like # 417
Diptera					✓						✓	✓						like # 1304, fruit fly
Hymenoptera					✓						✓	✓						like # 401
Diptera					✓						✓	✓						like # 2104
Orthoptera			✓							✓		✓						large locust
Odonata			✓								✓	✓						like # 501
Odonata			✓							✓		✓						blue large damselfly
Diptera			✓							✓		✓						small paper wings
Diptera	Asilidae		✓							✓	✓	✓						like # 1277
Hymenoptera			✓							✓	✓	✓						like # 1342

Research AWPf Invertebrate Collection Sheet

Site Name: YWW Location: Res Rip 3 Date: 9/19/08 Form: 1 of 2
 Comments: _____

Malaise Trap		Date: <u>9/19/08</u>	Set Temp. (°C): <u>31°</u>	Set % Cloud Cover: <u>0</u>	Set Wind: <u>0</u>	# of Envelopes: _____	
Set Time: <u>944</u>	Removal Time: <u>1850</u>	Removal Temp. (°C): <u>33°</u>	Removal % Cloud Cover: <u>10%</u>	Removal Wind: <u>0</u>	Number of Vials: _____		
Timed Area Search		Date: <u>9/19/08</u>	Start Time: <u>950</u>	Stop Time: <u>1050</u>	Temperature: <u>31°</u>		
# of Envelopes: <u>1</u>	Number of Vials: _____	% Cloud Cover: <u>0</u>	Wind Speed: <u>0</u>				
UV Light		Date: <u>9/19/08</u>	Start Time: <u>1915</u>	Stop Time: <u>2015</u>	Set Temp. (°C): <u>33°</u>	Set % Cloud Cover: <u>10%</u>	Set Wind: <u>0</u>

Order	Family	Genus and Species	Collection Method				Preservation				Count				Comments		
			Spot	UV	Malaise	Pit Trap	Pinned #	ETOH	Envelope	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)		Abundant (51-100)	Super-Abundant (>100)
			✓	✓	✓	✓		✓	✓		✓	✓	✓	✓		✓	✓
Hymenoptera	1				✓						✓					like # 1676, red ant	
Diptera	1				✓						✓			✓		like # 989, green gnst	
Diptera	2				✓						✓					like # 512	
Diptera	3				✓						✓					like # 2077, blk gnst	
Diptera	4				✓						✓					like # 1361	
Diptera	5				✓						✓					like # 2182, tiny	
Hemiptera	1				✓						✓	✓				like # 2134, leaf hoppers	
Diptera	6				✓						✓	✓				like # 2183	
Coleoptera	1				✓						✓	✓				like # 1131	
Lepidoptera	1				✓						✓	✓				like # 1455	
Hymenoptera	2				✓						✓	✓				like # 417	
Hymenoptera	3				✓						✓	✓				like # 2138	
Lepidoptera	1		✓								✓	✓				like # 423	
Lepidoptera	2		✓							2232	✓	✓				orange	
Diptera	7		✓								✓	✓				like # 2102	
Odonata			✓								✓	✓				like # 501	
Coleoptera	2 Cerambycidae		✓							2233	✓	✓				like # 555, long horn beetle	
Hemiptera	2		✓							2234	✓	✓				large tree hopper	
Neuroptera	Myrme			✓							✓		✓			like # _____, antlion	
Coleoptera	3			✓							✓		✓			like # 112	
Coleoptera	4			✓							✓		✓			like # 2063	
Coleoptera	5			✓							✓	✓				like # 1595	
Hymenoptera	4			✓							✓		✓			like # 1787	
Coleoptera	6 Elateridae			✓							✓		✓			like # 1207, _____	
Hymenoptera	5			✓							✓	✓				like # 598, formica	
Coleoptera	7			✓							✓		✓			like # 2129	
Coleoptera	8			✓							✓		✓			like # 2108	
Coleoptera	9			✓							✓		✓			like # 2123	

Research AWPf Invertebrate Collection Sheet

9/19/08

Site Name: ~~YWW~~ YWW

Location: Res Rip 3

Date: ~~9/19/08~~

Form: 2 of 2

Observed Species																	
Order	Family	Genus and Species	Collection Method				Preservation				Count					Comments	
			Spot ✓	UV ✓	Malaise ✓	Pit Trap ✓	Pinned #	ETOH ✓	Envelope ✓	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)	Abundant (51-100)		Super- Abundant (>100)
Coleoptera	10			✓				1			2211		✓				like # 2069, bases
Coleoptera	11			✓				1			2212		✓				SALT N. PROTON
Lepidoptera	1			✓									✓			✓	like # 1455
Lepidoptera	2			✓									✓				like # 280
Lepidoptera	4			✓									✓				like # 1459
Lepidoptera	5			✓									✓				like # 1487
Lepidoptera	6			✓									✓				like # 2200
Lepidoptera	7			✓									✓				like # 1454
Lepidoptera	8			✓									✓				like # 1159
Trichoptera	1			✓									✓				like # 233, COMB. Fly
Lepidoptera	9			✓									✓				like # 1297
Lepidoptera	10			✓				1			2213						like # 1452
Trichoptera	2			✓				10/2			2214						caddis w/ soft wings
Trichoptera	2			✓				20/2			2215						"
Diptera	2			✓									✓	✓			like # 512
Hemiptera	1			✓									✓	✓			like # 2134, tan
Hemiptera	2			✓									✓	✓			like # 2133, green
Hemiptera	3			✓									✓	✓			like # 1134
Coleoptera	12			✓												✓	like # 739
Lepidoptera	11			✓										✓			like # 946

Research AWPf Invertebrate Collection Sheet

 Site Name: BW NWR

 Location: Ref Wet 5

 Date: 10/8/08

Form: ___ of ___

Comments: _____

Malaise Trap		Date: <u>10/8/08</u>	Set Temp. (°C): <u>31</u>	Set % Cloud Cover: <u>0</u>	Set Wind: <u>1</u>	# of Envelopes: <u>1</u>
Set Time: <u>1045</u>	Removal Time: <u>1805</u>	Removal Temp. (°C): <u>25°</u>	Removal % Cloud Cover: <u>0</u>	Removal Wind: <u>0</u>	Number of Vials: _____	

Timed Area Search		Date: <u>10/8/08</u>	Start Time: <u>1045</u>	Stop Time: _____	Temperature: <u>31°</u>
# of Envelopes: _____	Number of Vials: _____	% Cloud Cover: _____	Wind Speed: _____		

UV Light		Date: _____	Start Time: _____	Stop Time: _____	Set Temp. (°C): _____	Set % Cloud Cover: _____	Set Wind: _____
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Observed Species

Order	Family	Genus and Species	Collection Method				Preservation				Count					Comments	
			Spot ↓	UV ↓	Malaise ↓	Pit Trap ↓	Pinned #	ETOH ↓	Envelope ↓	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)	Abundant (51-100)		Super- Abundant (>100)
Odonata	1		✓						2223	✓	✓						like # 2197
Odonata	2		✓						2224	✓	✓						like # 721, blue dragon
Odonata	3		✓							✓	✓						like # 1664
Hymenoptera	1		✓							✓	✓						like # 1664
Blattaria	1		✓						2222	✓	✓						immature cockroach
Diptera	1 Tabanidae				✓					✓		✓					like # 2194
Diptera	2				✓					✓	✓						like # 106
Diptera	3				✓					✓		✓					like # 512
Diptera	4				✓					✓		✓					like # 809
Diptera	5				✓					✓		✓					like # 989
Diptera	6				✓					✓							like # 2049
Diptera	7 Culicidae				✓					✓							like # 11058
Diptera	8				✓					✓		✓					like # 2194
Hemiptera	1				✓					✓		✓					like # 2207
Araneae	1		✓						2246			✓					small spider
Odonata	4		✓						2247			✓					

Research AWPf Invertebrate Collection Sheet

Site Name: DP BWNWR Location: Ref Wet 3 Date: 10/8/08 Form: 1 of 2

Malaise Trap Date: 10/8/08
 Set Time: 925 Set Temp. (°C): 26 Set % Cloud Cover: 0% Set Wind: 1 mph # of Envelopes: 1
 Removal Time: 1814 Removal Temp. (°C): 29 Removal % Cloud Cover: 0% Removal Wind: 0 mph Number of Vials: 0

Timed Area Search Date: 10/8/08
 Start Time: 430 Stop Time: 1030 Temperature: 26°
 # of Envelopes: 1 Number of Vials: 1 % Cloud Cover: 0% Wind Speed: 1 mph

UV Light Date: 10/8/08
 Start Time: 16:35 Stop Time: 1935 Set Temp. (°C): 23° Set % Cloud Cover: 0 Set Wind: 0

Observed Species

Order	Family	Genus and Species	Collection Method				Preservation				Count				Comments	
			Spot	UV	Malaise	Pit Trap	Pinned #	ETOH	Envelope	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)		Abundant (51-100)
Diptera	1	Culicidae	✓								✓					like #1658, mosquito
Diptera	2		✓								✓					like # 989, green rat
Diptera	3		✓							2221		✓				fly w/ spotty wings, like
Diptera	4				✓						✓	✓				like #1986, green fly
Diptera	5				✓						✓					like # 809, green fly
Diptera	6				✓						✓					like # 513, stripe fly
Diptera	7	Tabanidae			✓						✓					like # 989, green gnat
Hymenoptera					✓						✓	✓				like #2194, hover
Diptera	8				✓						✓	✓				like #1664, paper wasp
Diptera	9				✓						✓	✓				like # 2221
Odonata	1				✓						✓	✓				like # 781, spotted wings
Diptera	10				✓						✓	✓				like # 951, damsel
Diptera	3				✓						✓	✓				like #1023
Lepidoptera	1			✓							✓	✓				like # 1984
Lepidoptera	2			✓							✓	✓				like # 1744
Lepidoptera	3			✓							✓	✓				like # 1887
Lepidoptera	4			✓							✓	✓				like # 1869
Lepidoptera	5			✓							✓	✓				like # 1436
Diptera	10			✓							✓	✓				like # 1871
Diptera	1			✓							✓	✓				like # 512
Coleoptera	1			✓							✓	✓				like # 1658, mosquito
Orthoptera	1			✓							✓	✓				like # 739
Coleoptera	2			✓							✓	✓				like # 1868
Coleoptera	3			✓							✓	✓				like # 1029
Trichoptera	1			✓							✓	✓				like # 2130
Amphipoda	1		✓						2✓	2248		✓				like # 233
Scudocera	2		✓							2249		✓				Shrimp like, all w/ re

odanara

Research AWPf Invertebrate Collection Sheet

Site Name: Planet Ranch Location: Peb Rip 2 Date: 10/9/08 Form: of
 Comments: _____

Malaise Trap Date: 10/9/08
 Set Time: 1000 Set Temp. (°C): 36° Set % Cloud Cover: 0/ Set Wind: 1-2 mph # of Envelopes: _____
 Removal Time: 1724 Removal Temp. (°C): 31° Removal % Cloud Cover: 0/ Removal Wind: 1-2 mph Number of Vials: _____

Timed Area Search Date: 10/9/08
 Start Time: 1150 Stop Time: 1250 Temperature: 36°
 # of Envelopes: _____ Number of Vials: _____ % Cloud Cover: 0 Wind Speed: 1-2 mph

UV Light Date: _____
 Start Time: _____ Stop Time: _____ Set Temp. (°C): _____ Set % Cloud Cover: _____ Set Wind: _____

Observed Species

Order	Family	Genus and Species	Collection Method				Preservation				Count				Comments	
			Spot	UV	Malaise	Pit Trap	Pinned #	ETOH	Envelope	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)		Abundant (51-100)	Super-Abundant (>100)
Diptera					✓						✓	✓				like # 513, la. fly
Diptera					✓						✓	✓				like # 1147
Diptera					✓						✓					like # 808
Diptera					✓				162		2163					
Diptera					✓				262		2164					
Diptera					✓											
Hymenoptera	Formicidae				✓						✓	✓				like # 1690, red ant
Hymenoptera					✓						✓	✓				like # 1734, ♀ hopper
Diptera					✓				162		2165					green fly w/ spotted wings
Diptera					✓				262		2166					green fly w/ spotted wings
Diptera					✓											like # 989, green gnat
Diptera					✓											like # 2077, blk gnat
Diptera	Culicidae				✓						✓	✓				like # 1658, mosquito
Hymenoptera?					✓						✓	✓				like # 520, yellow legs
Diptera					✓						2167					
Hymenoptera?					✓											like # 671
Diptera					✓											like # 2161
Diptera					✓											like # 2170, very tiny
Hymenoptera?					✓						2207					green paria?
Hymenoptera?					✓											like # 1842, red wasp
Lepidoptera			✓													like # 2218, smant

Research AWPf Invertebrate Collection Sheet

Site Name: Planet Ranch Location: Red Rip 4 Date: 10/9/08 Form: 1 of 2
 Comments: _____

Malaise Trap Date: 10/9/08
 Set Time: 1030 Set Temp. (°C): 35 Set % Cloud Cover: 0% Set Wind: 1-3 mph # of Envelopes: _____
 Removal Time: 1824 Removal Temp. (°C): 30 Removal % Cloud Cover: 0% Removal Wind: 1-3 mph Number of Vials: _____

Timed Area Search Date: 10/9/08
 Start Time: 1035 Stop Time: 1140 Temperature: 35°
 # of Envelopes: 2 Number of Vials: _____ % Cloud Cover: 0 Wind Speed: 1-3 mph

UV Light Date: 10/9/08
 Start Time: 1840 Stop Time: _____ Set Temp. (°C): 30 Set % Cloud Cover: 0% Set Wind: 1-3 mph

Order	Family	Genus and Species	Collection Method				Preservation				Count				Comments	
			Spot	UV	Malaise	Pit Trap	Pinned #	ETOH	Envelope	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)		Abundant (51-100)	Super-Abundant (>100)
Diptera					✓						✓		✓			like # 513, lg fly
Diptera					✓						✓	✓				like # 106, green house fly
Diptera					✓						✓	✓				like # 512, sm. blk fly
Diptera					✓						✓	✓				like # 2163, sm fly orange wings
Diptera					✓						✓	✓				like # 2097, blk sm fly
Diptera					✓						✓	✓				like # 989, gen. sm fly
Diptera					✓					2208			✓			like # 2167
Diptera	Culicidae				✓						✓	✓				like # 1058
Diptera					✓						✓	✓				like # 1979, bee-like
Diptera					✓					162			✓			
Diptera					✓					2210			✓			
Homoptera					✓						✓	✓				like # 2207
Diptera					✓						✓	✓				like # 2105
Lepidoptera			✓							2225		✓				whitish, smt a pupa # 102
Lepidoptera	Danaidae		✓								✓	✓				like # 2210, green
Lepidoptera			✓								✓	✓				like # 2218, sm fly
Orthoptera			✓								✓	✓				like # 2178, common
Orthoptera			✓							2226		✓				green katydid # 574
Odonata			✓							2227		✓				like # 2219
Hymenoptera			✓							2228		✓				yellow wasp killer
Coleoptera				✓						2227		✓				like # 864
Coleoptera				✓							✓	✓				like # 977
Coleoptera				✓							✓	✓				like # 695
Hemiptera				✓							✓	✓				like # 2065
Coleoptera				✓							✓	✓				like # 1595
Hemiptera	Reduviidae			✓							✓	✓				like # 593
Lepidoptera				✓							✓	✓				like # 2218, sm fly
Neuroptera	Chrysopidae			✓							✓	✓				like # 909

Site Name: Planet Ranch

Location: Ref Rip 4

Research AWP Invertebrate Collection Sheet

Date: 10/9/08

Form: 2 of 2

Observed Species

Order	Family	Genus and Species	Collection Method				Preservation				Count					Super-Abundant (>100)	Comments	
			Spot ✓	JV ✓	Malaise ✓	Pit Trap ✓	Pinned #	ETOH ✓	Envelope ✓	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)	Abundant (51-100)			
Lepidoptera	4		✓								✓							like #1884
Lepidoptera	5		✓								✓							like # 1431
Lepidoptera	6		✓								✓		✓					like # 2005
Lepidoptera	7		✓								✓		✓					like # 1423
Lepidoptera	8		✓					1		2238	✓		✓					white moth, banded legs
Hymenoptera	2		✓								✓		✓					like # 1787
Diptera	6		✓								✓		✓					like # 989, green sp.

Research AWPf Invertebrate Collection Sheet

Site Name: Planet Ranch Location: Ref Zip Co Date: 10/9/08 Form: of

Comments: _____

Malaise Trap Date: 10/9/08
 Set Time: 1025 Set Temp. (°C): 35° Set % Cloud Cover: 01. Set Wind: ~~5 mph~~ 5 mph # of Envelopes: 1
 Removal Time: 1801 Removal Temp. (°C): 30° Removal % Cloud Cover: 01. Removal Wind: 3 mph Number of Vials: _____

Timed Area Search Date: 10/9/08
 Start Time: 1025 Stop Time: 1125 Temperature: 35°
 # of Envelopes: 1 Number of Vials: _____ % Cloud Cover: _____ Wind Speed: 5 mph

UV Light Date: _____
 Start Time: _____ Stop Time: _____ Set Temp. (°C): _____ Set % Cloud Cover: _____ Set Wind: _____

Observed Species

Order	Family	Genus and Species	Collection Method				Preservation				Count					Comments	
			Spot	UV	Malaise	Pit Trap	Pinned #	ETOH	Envelope	ID Number	None	1 to 2	Few (3-20)	Medium (21-50)	Abundant (51-100)		Super-Abundant (>100)
Diptera	Culicidae				✓						✓		✓				Like # 11058
Diptera					✓						✓		✓				Like # 989, green
Diptera					✓						✓		✓				Like # 2077, black
Diptera					✓						✓		✓				Like # 513, house fly
Diptera					✓						✓		✓				Like # 2170, tiny fly
Homoptera					✓						✓		✓				Like # 1734, leaf hopper
Diptera					✓				1	2161		✓					small brown fly
Hymenoptera					✓				1	2162		✓					looks like fly
Lepidoptera	1 Danaidae		✓						1	2217		✓					Like # 2216, green
Lepidoptera	2 Libytheidae		✓						1	2218		✓					smell
Lepidoptera	3		✓						1	2219	✓	✓					like # 1990
Odonata	1		✓						1	2219		✓					Red Darter
Odonata	2		✓						1	2220		✓					It. white Darter
Odonata	3		✓									✓					Like # 501
Hymenoptera	1		✓									✓					Like # 1082
Diptera	6		✓									✓					Like # 512
Diptera	7		✓									✓					Like # 1759, house fly
Diptera	8 Tabanidae		✓									✓					Like # 2194,

Appendix F. 2008 Avifaunal Datasheets

Avian Research Surveys March 2007																		
Observed <50m																		
Date:	3/22/2007	3/22/2007	3/22/2007	3/22/2007	3/22/2007	3/22/2007	3/22/2007	3/29/2007	3/29/2007	3/29/2007	3/29/2007	3/29/2007	3/29/2007	3/26/2007	3/27/2007	3/26/2007	3/26/2007	3/27/2007
Time:	627	637	649	701	710	719	648	659	717	738	753	804	610	603	657	726	623	
Air Temperature (°C):	17	15	18	12	12	12	6	5	5	6	10	12	16	15	12		18	15
Weather:	50% CC; 0 wind	40% CC; 0 wind	30% CC; 0 wind	30% CC; 0 wind	30% CC; slight wind	30% CC; slight wind	0 wind; 1% CC	0 mph wind; 5% CC	0 mph wind; 5% CC	0 mph wind; 1% CC	0 mph wind; 5% CC	0 mph wind; 5% CC	10% CC; no wind	5% CC; 10 mph winds	15% CC; no wind	15% CC; no wind	15% CC; no wind	5% CC; 10 mph wind
Bill Williams National Wildlife Refuge																		
Common Name site:	Ref Wet 1	Ref Wet 2	Ref Wet 3	Ref Wet 4	Ref Wet 5	Ref Wet 6	Ref Rip/Cott 1	Ref Rip/Cott 2	Ref Rip/Cott 3	Ref Rip/Cott 4	Ref Rip/Cott 5	Ref Rip/Cott 6	Control Wet 1	Control Wet 2	Control Wet 3	Control Wet 4	Control Wet 5	
Abert's Towhee							3			2		1			1			
American Avocet																		
American Coot					2	1								4	7		2	11
American Kestrel																		
Anna's Hummingbird																		
Ash-throated Flycatcher							1	3	4	2	4	4						
Bell's Vireo									2	1			1					
Belted Kingfisher																		
Bewick's Wren							1	1	2	2								
Black-crowned Night-Heron																		
Black-necked Stilt																		
Black Phoebe																		
Black-tailed Gnatcatcher																	1	
Black-throated Gray Warbler																		
Black-throated Sparrow																		
Blue-gray Gnatcatcher																		
Blue Grosbeak																		
Brewer's Blackbird																		
Brown-crested flycatcher																		
Brown-headed Cowbird					1	1									1	1	2	
Bullock's Oriole																		
Cactus Wren																		
Canvassack																		
Canyon Wren								1				2	1					
Cattle Egret																		
Clark's Grebe	4		1															
Cliff Swallow																		
Common Merganser																		
Common Moorhen																		1
Common Snipe																		
Common Yellowthroat			1	2	1	1	1								2	4	3	2
Cooper's Hawk																		
Costa's Hummingbird																		
Crissal Thrasher										1								
Double-crested Comorant																		
Eared Grebe																		
Gambel's Quail									1	2		2						
Great Blue Heron																		
Great Egret																		
Great Horned Owl																		
Greater Roadrunner																		
Greater Yellowlegs																		
Great-tailed Grackle							1											
Green Heron																		
Gila Woodpecker									1	1	1							
Hooded Oriole																		
Horned Lark																		
House Finch																		
House Wren																		
Killdeer															1			
Ladder-backed Woodpecker								2	3	2	2	2		1				
Least Bittern																		
Least Sandpiper																		
Lesser Goldfinch																		1
Lesser Nighthawk																		
Loggerhead Shrike																		
Long-billed Curlew																		
Long-billed Dowitcher																		
Lucy's Warbler								1	1	2	2	3	2					
MacGillivray's Warbler																		
Mallard				2		1	1											
Marsh Wren	2	1	3	2	1	3												2
Mourning Dove								4	6	10	3	4	4	2	1		1	
Northern Flicker										1								
Northern Mockingbird																		
Northern Rough-winged Swallow																		
Osprey											1							
Pacific-slope Flycatcher																		
Peregrine Falcon											2							
Phainopepla										2		2						
Plumbeous Vireo																		
Red-tailed Hawk																		
Red-winged Blackbird														30				5
Rock Dove																		
Ruby-crowned Kinglet																		
Ruddy Duck																		
Sharp-shinned Hawk																		
Snowy Egret																		
Song Sparrow			1	1		1		1	1	1		1	2			5		
Sora																		
Southwestern Willow Flycatcher																		
Spotted Sandpiper																		
Summer Tanager																		
Tree Swallow																		
Turkey Vulture																		
Unidentified empidonax																		
Unidentified Hummingbird													1					

Avian Research Surveys 2007

Sept 10- 20 2007

Point Name	Site	Date	Species	0-3 minutes				3-5 minutes				Time	Air Temp	Weather
				0-20	20-50	>50	Flyover	0-20	20-50	>50	Flyover			
Ref Rip Cott 11	BWNWR	9/10/2007	Song Sparrow	2					1					
Ref Rip Cott 11	BWNWR	9/10/2007	Yellow-breasted chat						1					
Ref Rip Cott 11	BWNWR	9/10/2007	Brown crested flycatcher					3						
Ref Rip Cott 11	BWNWR	9/10/2007	Mourning Dove						1					
Ref Rip Cott 12	BWNWR	9/10/2007	Song Sparrow	6								853	30	5% CC; 0 wind
Ref Rip Cott 12	BWNWR	9/10/2007	Bell's Vireo	2	1									
Ref Rip Cott 12	BWNWR	9/10/2007	Ladder-backed woodpecker	2	1	1								
Ref Rip Cott 12	BWNWR	9/10/2007	Yellow-breasted chat	3	1									
Ref Rip Cott 12	BWNWR	9/10/2007	Abert's towhee	1					1					
Ref Rip Cott 12	BWNWR	9/10/2007	Gila Woodpecker	1	1									
Ref Rip Cott 12	BWNWR	9/10/2007	Mourning Dove					2						
Ref Rip Cott 12	BWNWR	9/10/2007	Wilson's Warbler					1						
Ref Rip Cott 12	BWNWR	9/10/2007	Gambel's Quail					2						
Ref Wet 1	BWNWR	9/11/2007	Least bittern	1								628	24	2 mph; 0%CC
Ref Wet 1	BWNWR	9/11/2007	Great Blue heron			1								
Ref Wet 1	BWNWR	9/11/2007	Marsh Wren	1	1			1	1					
Ref Wet 1	BWNWR	9/11/2007	Sora						1					
Ref Wet 1	BWNWR	9/11/2007	Pied billed grebe							1				
Ref Wet 1	BWNWR	9/11/2007	Western grebe							1				
Ref Wet 1	BWNWR	9/11/2007	American Avocet								3			
Ref Wet 1	BWNWR	9/11/2007	Ladder-backed woodpecker						1					
Ref Wet 1	BWNWR	9/11/2007	Spotted sandpiper						1					
Ref Wet 2	BWNWR	9/11/2007	Marsh Wren	1					1			641	24	2 mph; 0%CC
Ref Wet 2	BWNWR	9/11/2007	Common Yellowthroat					1						
Ref Wet 2	BWNWR	9/11/2007	Black phoebe					1						
Ref Wet 2	BWNWR	9/11/2007	Pied billed grebe						1					
Ref Wet 2	BWNWR	9/11/2007	Great Blue heron						1					
Ref Wet 2	BWNWR	9/11/2007	Gambel's Quail						3					
Ref Wet 2	BWNWR	9/11/2007	Red-winged blackbird					3						
Ref Wet 3	BWNWR	9/11/2007	Red-winged blackbird	4								655	25	2 mph; 0%CC
Ref Wet 3	BWNWR	9/11/2007	Marsh Wren	1										
Ref Wet 3	BWNWR	9/11/2007	Yuma clapper rail		1									
Ref Wet 3	BWNWR	9/11/2007	Pied billed grebe		2									
Ref Wet 3	BWNWR	9/11/2007	Canadian Goose				47							
Ref Wet 3	BWNWR	9/11/2007	Ladder-backed woodpecker			1								
Ref Wet 3	BWNWR	9/11/2007	Least bittern		1									
Ref Wet 3	BWNWR	9/11/2007	Common Yellowthroat					1						
Ref Wet 3	BWNWR	9/11/2007	Common Morhen						1					
Ref Wet 4	BWNWR	9/11/2007	Great Blue heron	1								708	25	2mph; 0%CC
Ref Wet 4	BWNWR	9/11/2007	Marsh Wren	2	3									
Ref Wet 4	BWNWR	9/11/2007	Green heron	1										
Ref Wet 4	BWNWR	9/11/2007	black crowned nightheren				1							
Ref Wet 4	BWNWR	9/11/2007	Red-winged blackbird		3									
Ref Wet 4	BWNWR	9/11/2007	Western grebe	1										
Ref Wet 4	BWNWR	9/11/2007	Ladder-backed woodpecker		1					1				
Ref Wet 4	BWNWR	9/11/2007	Abert's towhee						1					
Ref Wet 4	BWNWR	9/11/2007	Phainopepla							1				
Ref Wet 5	BWNWR	9/11/2007	Marsh Wren	1	1			1	1			719	25	2 mph wind; 0% CC
Ref Wet 5	BWNWR	9/11/2007	Abert's towhee	1										
Ref Wet 5	BWNWR	9/11/2007	Green heron		1			1	1					
Ref Wet 5	BWNWR	9/11/2007	Western grebe			1								
Ref Wet 5	BWNWR	9/11/2007	Red-winged blackbird						1					
Ref Wet 5	BWNWR	9/11/2007	Common Yellowthroat					1						
Ref Wet 5	BWNWR	9/11/2007	Ladder-backed woodpecker							1				
Ref Wet 5	BWNWR	9/11/2007	Common Morhen						1					
Ref Wet 5	BWNWR	9/11/2007	Pied billed grebe						1					
Ref Wet 6	BWNWR	9/11/2007	Red-winged blackbird		5		2					733	24	0% CC; 2 mph wind
Ref Wet 6	BWNWR	9/11/2007	Marsh Wren	1	1				1	1				
Ref Wet 6	BWNWR	9/11/2007	Song Sparrow	1					3					
Ref Wet 6	BWNWR	9/11/2007	Bell's Vireo		1									
Ref Wet 6	BWNWR	9/11/2007	Brown-headed cowbird				6							
Ref Wet 6	BWNWR	9/11/2007	Common Yellowthroat		1	1			1					
Ref Wet 6	BWNWR	9/11/2007	Green heron		1									
Ref Wet 6	BWNWR	9/11/2007	Great Blue heron			1								
Ref Wet 6	BWNWR	9/11/2007	Yellow breasted chat							1				
Ref Wet 7	BWNWR	9/11/2007	Great Blue heron				1					743	23	2 mph; 0% CC
Ref Wet 7	BWNWR	9/11/2007	Common Yellowthroat	3	1			1						

Avian Research Surveys 2007

Sept 10- 20 2007

Point Name	Site	Date	Species	0-3 minutes				3-5 minutes				Time	Air Temp	Weather
				0-20	20-50	>50	Flyover	0-20	20-50	>50	Flyover			
Ref Wet 7	BWNWR	9/11/2007	Song Sparrow	3		1		1						
Ref Wet 7	BWNWR	9/11/2007	Marsh Wren		1									
Ref Wet 7	BWNWR	9/11/2007	Ladder-backed woodpecker			1								
Ref Wet 7	BWNWR	9/11/2007	Bell's Vireo			1								
Ref Wet 7	BWNWR	9/11/2007	Green heron			1								
Ref Wet 7	BWNWR	9/11/2007	Red-winged blackbird					1						
Ref Wet 8	BWNWR	9/11/2007	Bell's Vireo		1						752	24	2 mph; 0% CC	
Ref Wet 8	BWNWR	9/11/2007	Great Blue heron			1								
Ref Wet 8	BWNWR	9/11/2007	Marsh Wren	2										
Ref Wet 8	BWNWR	9/11/2007	Common Yellowthroat		2			2						
Ref Wet 8	BWNWR	9/11/2007	Green heron		2									
Ref Wet 8	BWNWR	9/11/2007	Ladder-backed woodpecker			1								
Ref Wet 8	BWNWR	9/11/2007	Common Morhen	1										
Ref Wet 8	BWNWR	9/11/2007	Song Sparrow					1	1					
Ref Wet 8	BWNWR	9/11/2007	Pied billed grebe					2						
Ref Wet 8	BWNWR	9/11/2007	Red-winged blackbird							19				
Ref Wet 9	BWNWR	9/11/2007	Great Egret		8						804	27	2 mph; 0% CC	
Ref Wet 9	BWNWR	9/11/2007	Bell's Vireo		1									
Ref Wet 9	BWNWR	9/11/2007	Song Sparrow	1	2			1						
Ref Wet 9	BWNWR	9/11/2007	Ladder-backed woodpecker			1			1					
Ref Wet 9	BWNWR	9/11/2007	Marsh Wren	1										
Ref Wet 9	BWNWR	9/11/2007	Least bittern	1	1									
Ref Wet 9	BWNWR	9/11/2007	Common Yellowthroat					3	2					
Ref Wet 9	BWNWR	9/11/2007	Yuma clapper rail					1						
Ref Wet 9	BWNWR	9/11/2007	Unidentified swallow							12				
Ref Wet 10	BWNWR	9/11/2007	Red-winged blackbird	4							831	30	5 mph; 0% CC	
Ref Wet 10	BWNWR	9/11/2007	Great tailed grackle	1	1									
Ref Wet 10	BWNWR	9/11/2007	Song Sparrow		1									
Ref Wet 10	BWNWR	9/11/2007	Black phoebe						1					
Ref Wet 10	BWNWR	9/11/2007	Common Yellowthroat						1					
Ref Wet 11	BWNWR	9/11/2007	Great tailed grackle	1							841	30	5 mph; 0% CC	
Ref Wet 11	BWNWR	9/11/2007	Red-winged blackbird	1	1									
Ref Wet 11	BWNWR	9/11/2007	Marsh Wren		2									
Ref Wet 11	BWNWR	9/11/2007	Ladder-backed woodpecker			1								
Ref Wet 11	BWNWR	9/11/2007	Common Yellowthroat		1			1		1				
Ref Wet 11	BWNWR	9/11/2007	Least bittern			1								
Ref Wet 11	BWNWR	9/11/2007	Pied billed grebe						2					
Ref Wet 11	BWNWR	9/11/2007	Mallard						2					
Ref Wet 12	BWNWR	9/11/2007	Clark's Grebe	1						1	855	30	2 mph wind; 0% CC	
Ref Wet 12	BWNWR	9/11/2007	Belted kingfisher				1							
Ref Wet 12	BWNWR	9/11/2007	Great Blue heron	1										
Ref Wet 12	BWNWR	9/11/2007	Red-winged blackbird		1									
Ref Wet 12	BWNWR	9/11/2007	Common Morhen						1					
Ref Wet 12	BWNWR	9/11/2007	Common Yellowthroat					1						
Ref Wet 12	BWNWR	9/11/2007	Least bittern						1					
Ref Wet 12	BWNWR	9/11/2007	Pied billed grebe						1					
Ref Wet 12	BWNWR	9/11/2007	Yellow-headed blackbird							5				
Ref Wet 12	BWNWR	9/11/2007	Forsters Tern							1				
Rest Rip Imm 1	YEW	9/19/2007	American Kestrel		1									
Rest Rip Imm 1	YEW	9/19/2007	Verdin					1						
Rest Rip Imm 1	YEW	9/19/2007	Ladder-backed woodpecker							1				
Rest Rip Imm 1	YEW	9/19/2007	Black Phoebe							1				
Rest Rip Imm 1	YEW	9/19/2007	Killdeer	2							806	30	0 Wind; 0 CC	
Rest Rip Imm 1	YEW	9/19/2007	Mourning Dove	7	10		4			2				
Rest Rip Imm 1	YEW	9/19/2007	Abert's towhee		2									
Rest Rip Imm 2	YEW	9/17/2007	Verdin	2							925	34	0 Wind; 0 CC	
Rest Rip Imm 2	YEW	9/17/2007	Mourning Dove	1			5	1		1				
Rest Rip Imm 2	YEW	9/17/2007	Red-winged blackbird				11							
Rest Rip Imm 3	YEW	9/19/2007	Mourning Dove				2				824	31	0 Wind; 0 CC	
Rest Rip Imm 3	YEW	9/19/2007	Crissal Thrasher	1										
Rest Rip Imm 3	YEW	9/19/2007	Killdeer				1							
Rest Rip Imm 3	YEW	9/19/2007	Abert's towhee	1										
Rest Rip Imm 3	YEW	9/19/2007	Verdin	1				2						
Rest Rip Imm 3	YEW	9/19/2007	Yellow-headed blackbird							1				
Rest Rip Imm 3	YEW	9/19/2007	Black-tailed gnatcatcher						1					
Rest Rip Imm 3	YEW	9/19/2007	Red-winged blackbird							16				
Rest Rip Imm 4	YEW	9/19/2007	White-winged Dove				1				816	30	0 Wind; 0 CC	

Avian Research Surveys 2007

Sept 10- 20 2007

Point Name	Site	Date	Species	0-3 minutes				3-5 minutes				Time	Air Temp	Weather
				0-20	20-50	>50	Flyover	0-20	20-50	>50	Flyover			
Control Rip 2	YEW	9/17/2007	Northern Mockingbird	1										
Control Rip 2	YEW	9/17/2007	Black-tailed gnatcatcher					1						
Control Rip 3	YEW	9/17/2007	Verdin	1					1			731	21	0% CC; 0 wind
Control Rip 3	YEW	9/17/2007	Western kingbird	1										
Control Rip 3	YEW	9/17/2007	Red-Winged Blackbird								12			
Control Rip 4	YEW	9/17/2007	Red-Winged Blackbird	4							2	800	27	0% CC; 0 wind
Control Rip 4	YEW	9/17/2007	Killdeer			1								
Control Rip 4	YEW	9/17/2007	Verdin			1				1				
Control Rip 4	YEW	9/17/2007	Black-tailed gnatcatcher	1										
Control Rip 4	YEW	9/17/2007	White throated swift					1						
Control Rip 4	YEW	9/17/2007	Common yellowthroat	3										
Control Rip 5	YEW	9/19/2007	Verdin	1								949	35	0 Wind; 0 CC
Control Rip 5	YEW	9/19/2007	Red-Winged Blackbird					1						
Control Rip 6	YEW	9/19/2007	House finch	1								959	36	0 Wind; 0 CC
Control Rip 6	YEW	9/19/2007	Red-Winged Blackbird	5										
Control Rip 6	YEW	9/19/2007	Verdin	4										
Control Rip 7	YEW	9/17/2007	Ladder-backed woodpecker			1						700	13	0 Wind; 0 CC
Control Rip 7	YEW	9/17/2007	Red-Winged Blackbird	3		17					8			
Control Rip 7	YEW	9/17/2007	Northern Mockingbird			1								
Control Rip 7	YEW	9/17/2007	Verdin	1										
Control Rip 7	YEW	9/17/2007	Yellow-headed blackbird								4			
Control Rip 8	YEW	9/17/2007	Northern Mockingbird	1								712	15	0 Wind; 0 CC
Control Rip 8	YEW	9/17/2007	Abert's Towhee	2										
Control Rip 8	YEW	9/17/2007	Lesser Nighthawk	1					1					
Control Rip 8	YEW	9/17/2007	House Wren						1					
Control Rip 8	YEW	9/17/2007	Red-Winged Blackbird								4			
Control Rip 9	YEW	9/17/2007	Red-Winged Blackbird			1		1				721	17	0 Wind; 0 CC
Control Rip 9	YEW	9/17/2007	Mourning Dove					1						
Control Rip 9	YEW	9/17/2007	Gambel's Quail			2					1			
Control Rip 9	YEW	9/17/2007	Black-tailed gnatcatcher			1								
Control Rip 9	YEW	9/17/2007	Ladder-backed woodpecker			1								
Control Rip 9	YEW	9/17/2007	Abert's Towhee						1					
Control Rip 10	YEW	9/17/2007	Gambel's Quail			10						748	25	0 Wind; 0 CC
Control Rip 10	YEW	9/17/2007	Black-tailed gnatcatcher			1			1					
Control Rip 10	YEW	9/17/2007	Verdin			1				1				
Control Rip 10	YEW	9/17/2007	Abert's Towhee			1								
Control Rip 10	YEW	9/17/2007	Ladder-backed woodpecker			1			1		2			
Control Rip 10	YEW	9/17/2007	Great-tailed grackle									1		
Control Rip 10	YEW	9/17/2007	Cattle Egret								4			
Control Rip 10	YEW	9/17/2007	Red-Winged Blackbird								4			
Control Rip 11	YEW	9/17/2007	Gambel's Quail			12						943	34	0 Wind; 0 CC
Control Rip 11	YEW	9/17/2007	Northern Mockingbird			1								
Control Rip 11	YEW	9/17/2007	House finch						1					
Control Rip 11	YEW	9/17/2007	Mourning Dove						2			1		
Control Rip 11	YEW	9/17/2007	Verdin			1								
Control Rip 11	YEW	9/17/2007	Abert's Towhee								1			
Control Rip 12	YEW	9/19/2007	Abert's towhee			1						936	35	1 mph wind; 0%CC
Control Rip 12	YEW	9/19/2007	Verdin			1								
Control Rip 12	YEW	9/19/2007	Black-tailed gnatcatcher			1								
Control Rip 12	YEW	9/19/2007	Red-Winged Blackbird						63					
Control Rip 12	YEW	9/19/2007	Ladder-backed woodpecker								1			
Rest Wet 1	YEW	9/19/2007	Great blue heron			1						718	24	0 Wind; 0 CC
Rest Wet 1	YEW	9/19/2007	Great Egret			1								
Rest Wet 1	YEW	9/19/2007	Green heron			2								
Rest Wet 1	YEW	9/19/2007	Common yellowthroat			2								
Rest Wet 1	YEW	9/19/2007	Yuma clapper rail			1								
Rest Wet 1	YEW	9/19/2007	Red-Winged Blackbird						1					
Rest Wet 1	YEW	9/19/2007	Mourning Dove						1					
Rest Wet 1	YEW	9/19/2007	Least bittern			1				2				
Rest Wet 1	YEW	9/19/2007	Yellow-headed blackbird								11			
Rest Wet 1	YEW	9/19/2007	Marsh Wren							3				
Rest Wet 1	YEW	9/19/2007	Abert's towhee						1					
Rest Wet 2	YEW	9/19/2007	Common yellowthroat			1			1			647	21	0 Wind; 0 CC
Rest Wet 2	YEW	9/19/2007	Mourning Dove						2					
Rest Wet 2	YEW	9/19/2007	Abert's towhee								1			
Rest Wet 2	YEW	9/19/2007	Red-Winged Blackbird						2					
Rest Wet 3	YEW	9/19/2007	Osprey						1					

Avian Research Surveys 2007

Sept 10- 20 2007

Point Name	Site	Date	Species	0-3 minutes				3-5 minutes				Time	Air Temp	Weather	
				0-20	20-50	>50	Flyover	0-20	20-50	>50	Flyover				
Rest Wet 3	YEW	9/19/2007	Marsh Wren	1											
Rest Wet 3	YEW	9/19/2007	Common yellowthroat	2						1					
Rest Wet 3	YEW	9/19/2007	Black-necked stilt			1									
Rest Wet 3	YEW	9/19/2007	White-winged Dove												2
Rest Wet 3	YEW	9/19/2007	Red-Winged Blackbird												2
Rest Wet 3	YEW	9/19/2007	Anna's Hummingbird												1
Rest Wet 3	YEW	9/19/2007	Black crowned night heron												2
Rest Wet 4	YEW	9/19/2007	Common yellowthroat	2								743	27		0 Wind; 0 CC
Rest Wet 4	YEW	9/19/2007	Abert's towhee			1									
Rest Wet 4	YEW	9/19/2007	Mourning Dove					4							
Rest Wet 4	YEW	9/19/2007	Song sparrow	2											
Rest Wet 4	YEW	9/19/2007	Red-Winged Blackbird					8							16
Rest Wet 4	YEW	9/19/2007	Wilson's Warbler						1						
Rest Wet 4	YEW	9/19/2007	Verdin												2
Rest Wet 4	YEW	9/19/2007	White-winged Dove						1						
Rest Wet 5	YEW	9/19/2007	Mourning Dove					5				2	753		26 0 Wind; 0 CC
Rest Wet 5	YEW	9/19/2007	Red-Winged Blackbird					2							
Rest Wet 5	YEW	9/19/2007	Verdin						1						
Rest Wet 6	YEW	9/19/2007	Great-tailed grackle									4	709		22 0 Wind; 0 CC
Rest Wet 6	YEW	9/19/2007	Common yellowthroat	2											
Rest Wet 6	YEW	9/19/2007	Marsh wren	2		1									
Rest Wet 6	YEW	9/19/2007	Great egret					2							
Rest Wet 6	YEW	9/19/2007	Red-Winged Blackbird			3		27							23
Rest Wet 6	YEW	9/19/2007	Mourning Dove					2							1
Rest Wet 6	YEW	9/19/2007	Ladder-backed woodpecker				1								
Rest Wet 6	YEW	9/19/2007	Reddish Egret			1									
Rest Wet 6	YEW	9/19/2007	Greater yellowlegs							2					
Rest Wet 7	YEW	9/19/2007	Cliff Swallow					5					656		21 0 Wind; 0 CC
Rest Wet 7	YEW	9/19/2007	Common Yellowthroat	1											
Rest Wet 7	YEW	9/19/2007	Killdeer				1								
Rest Wet 7	YEW	9/19/2007	Red-Winged Blackbird												30
Rest. Wet 8	YEW	9/19/2007	Wilson's Warbler	1									915		34 1 mph wind: 0%CC
Rest. Wet 8	YEW	9/19/2007	Mourning Dove			8									2
Rest. Wet 8	YEW	9/19/2007	Ladder-backed woodpecker				1								
Rest. Wet 8	YEW	9/19/2007	House Finch			1									
Rest. Wet 9	YEW	9/20/2007	Mourning Dove	11									908		24 10 mph; 50% CC
Rest. Wet 9	YEW	9/20/2007	Killdeer	2		1									
Rest. Wet 9	YEW	9/20/2007	Great Egret			1	1								
Rest. Wet 9	YEW	9/20/2007	Spotted Sandpiper						1						
Rest. Wet 9	YEW	9/20/2007	Cliff Swallow												1
Rest. Wet 10	YEW	9/20/2007	Mourning Dove					2					901		27 10 mph; 50% CC
Rest. Wet 10	YEW	9/20/2007	Killdeer					1							
Rest. Wet 10	YEW	9/20/2007	White winged dove	1				1							
Rest. Wet 10	YEW	9/20/2007	Rock Dove					1							
Rest. Wet 11	YEW	9/20/2007	Great Egret	1									839		23 5-10 mph; 50% CC
Rest. Wet 11	YEW	9/20/2007	Great blue heron			1									
Rest. Wet 11	YEW	9/20/2007	Mourning Dove			8		12			2	32			
Rest. Wet 11	YEW	9/20/2007	Killdeer								1				
Rest. Wet 11	YEW	9/20/2007	White winged dove												6
Rest. Wet 12	YEW	9/20/2007	Black Phoebe			1							850		24 5-10 mph; 50% CC
Rest. Wet 12	YEW	9/20/2007	Mourning Dove					8				3			
Rest. Wet 12	YEW	9/20/2007	Killdeer				1								
Rest. Wet 12	YEW	9/20/2007	White winged dove					2							
Adj Ag 1	YEW	9/20/2007	Red-Winged Blackbird	3				16					920		26 10 mph; 75% CC
Adj Ag 2	YEW	9/20/2007	Cliff Swallow					11					930		28 15 mph; 75% CC
Adj Ag 2	YEW	9/20/2007	Red-Winged Blackbird	25				34	4						
Adj Ag 2	YEW	9/20/2007	Tree Swallow					3							
Adj Ag 2	YEW	9/20/2007	Mourning Dove												1
Adj Ag 3	YEW	9/20/2007	Red-Winged Blackbird					84					938		28 15 mph; 75% CC
Adj Ag 3	YEW	9/20/2007	White crowned Sparrow						1						
Adj Ag 4	YEW	9/20/2007	Cliff Swallow					1					946		28 15 mph; 75% CC
Adj Ag 4	YEW	9/20/2007	Tree Swallow					1							
Adj Ag 4	YEW	9/20/2007	Northern Harrier								1				
Adj Ag 4	YEW	9/20/2007	Red-Winged Blackbird												22
Adj Ag 5	YEW	9/20/2007	none												
Adj Ag 6	YEW	9/20/2007	Tree Swallow					1					1002		29 10mph; 75% CC
Control Wet 1	YEW	9/17/2007	Red-Winged Blackbird	12				55	84			162	613		16 0 Wind; 0 CC

Avian Research Surveys 2007

Sept 10- 20 2007

				0-3 minutes				3-5 minutes						
Point Name	Site	Date	Species	0-20	20-50	>50	Flyover	0-20	20-50	>50	Flyover	Time	Air Temp	Weather
Control Wet 11	YEW	9/17/2007	Wilson's Warbler	1				1						
Control Wet 11	YEW	9/17/2007	Red-Winged Blackbird		5				14					
Control Wet 11	YEW	9/17/2007	Great blue heron						1					

Avian Research Surveys 2007 Nov 12-15, 2007

Point Name	Site	Date	Species	0-3 minutes				3-5 minutes				Time	Air Temp	Weather
				0-20	20-50	>50	Flyover	0-20	20-50	>50	Flyover			
Ref Rip Cott 1	BWNWR	11/13/2007	Gila Woodpecker			1						722	12	0% CC; 0 wind
Ref Rip Cott 1	BWNWR	11/13/2007	Yellow rumped Warbler	2										
Ref Rip Cott 1	BWNWR	11/13/2007	Say's Phoebe						1					
Ref Rip Cott 1	BWNWR	11/13/2007	Canyon Wren						1					
Ref Rip Cott 1	BWNWR	11/13/2007	Abert's Towhee					1						
Ref Rip Cott 2	BWNWR	11/13/2007	Ruby-crowned kinglet	2								734	12	0% CC; 0 wind
Ref Rip Cott 2	BWNWR	11/13/2007	Gila Woodpecker			1								
Ref Rip Cott 2	BWNWR	11/13/2007	Abert's Towhee		1									
Ref Rip Cott 2	BWNWR	11/13/2007	Canyon Wren		1	1								
Ref Rip Cott 2	BWNWR	11/13/2007	Bewick's Wren					1						
Ref Rip Cott 2	BWNWR	11/13/2007	Yellow rumped Warbler					1						
Ref Rip Cott 2	BWNWR	11/13/2007	Red Naped Sapsucker					2						
Ref Rip Cott 3	BWNWR	11/13/2007	Spotted Towhee	2								750	10	0% CC; 0 wind
Ref Rip Cott 3	BWNWR	11/13/2007	Gila Woodpecker		1									
Ref Rip Cott 3	BWNWR	11/13/2007	Canyon Wren		1									
Ref Rip Cott 3	BWNWR	11/13/2007	Abert's Towhee	1										
Ref Rip Cott 3	BWNWR	11/13/2007	Yellow rumped Warbler	8										
Ref Rip Cott 3	BWNWR	11/13/2007	Gambel's Quail			2								
Ref Rip Cott 3	BWNWR	11/13/2007	Black Phoebe					1						
Ref Rip Cott 4	BWNWR	11/13/2007	Abert's Towhee	1								802	12	0% CC; 0 wind
Ref Rip Cott 4	BWNWR	11/13/2007	Ladder-backed woodpecker		1									
Ref Rip Cott 4	BWNWR	11/13/2007	Gila Woodpecker		1									
Ref Rip Cott 4	BWNWR	11/13/2007	Bewick's Wren	2										
Ref Rip Cott 4	BWNWR	11/13/2007	Common Yellowthroat					1						
Ref Rip Cott 4	BWNWR	11/13/2007	Ruby-crowned kinglet					3						
Ref Rip Cott 5	BWNWR	11/13/2007	Red Tailed Hawk			1						817	11	0% CC; 0 wind
Ref Rip Cott 5	BWNWR	11/13/2007	Gila Woodpecker	1										
Ref Rip Cott 5	BWNWR	11/13/2007	Canyon Wren	1										
Ref Rip Cott 5	BWNWR	11/13/2007	Ruby Crowned Kinglet	3										
Ref Rip Cott 5	BWNWR	11/13/2007	Song Sparrow	2	1									
Ref Rip Cott 5	BWNWR	11/13/2007	Ladder-backed woodpecker					2						
Ref Rip Cott 6	BWNWR	11/13/2007	Black Phoebe	1								830	10	0% CC; 0 wind
Ref Rip Cott 6	BWNWR	11/13/2007	Abert's Towhee	1	1									
Ref Rip Cott 6	BWNWR	11/13/2007	Red Naped Sapsucker	1										
Ref Rip Cott 6	BWNWR	11/13/2007	Northern Flicker	1										
Ref Rip Cott 7	BWNWR	11/13/2007	Anna's Hummingbird	1								839	10	0% CC; 0 wind
Ref Rip Cott 7	BWNWR	11/13/2007	Yellow rumped Warbler	2										
Ref Rip Cott 7	BWNWR	11/13/2007	Abert's Towhee	2	1									
Ref Rip Cott 7	BWNWR	11/13/2007	Ruby-crowned kinglet					2						
Ref Rip Cott 7	BWNWR	11/13/2007	Ladder-backed woodpecker					1						
Ref Rip Cott 7	BWNWR	11/13/2007	Song Sparrow					2						
Ref Rip Cott 8	BWNWR	11/13/2007	Ruby-crowned kinglet		2							849	13	0% CC; 1 mph wind
Ref Rip Cott 8	BWNWR	11/13/2007	Abert's Towhee	1										
Ref Rip Cott 8	BWNWR	11/13/2007	Bewick's Wren	1										
Ref Rip Cott 8	BWNWR	11/13/2007	Yellow rumped Warbler	4										
Ref Rip Cott 8	BWNWR	11/13/2007	Song Sparrow	4										
Ref Rip Cott 9	BWNWR	11/13/2007	Say's Phoebe	1								859	15	0% CC; 1 mph wind
Ref Rip Cott 9	BWNWR	11/13/2007	Abert's Towhee	2					1					
Ref Rip Cott 9	BWNWR	11/13/2007	Ladder-backed woodpecker	1				1						
Ref Rip Cott 9	BWNWR	11/13/2007	Ruby-crowned kinglet	2										
Ref Rip Cott 9	BWNWR	11/13/2007	Song Sparrow	2					2					
Ref Rip Cott 9	BWNWR	11/13/2007	Yellow rumped Warbler	2				1						
Ref Rip Cott 9	BWNWR	11/13/2007	Black Phoebe					1						
Ref Rip Cott 9	BWNWR	11/13/2007	Gila Woodpecker					1	1					

Avian Research Surveys 2007

Nov 12-15, 2007

Point Name	Site	Date	Species	0-3 minutes				3-5 minutes				Time	Air Temp	Weather	
				0-20	20-50	>50	Flyover	0-20	20-50	>50	Flyover				
Ref Rip Cott 9	BWNWR	11/13/2007	Red-tailed Hawk					1							
Ref Rip Cott 10	BWNWR	11/13/2007	Song Sparrow	2				1				911	17	0% CC; 1 mph wind	
Ref Rip Cott 10	BWNWR	11/13/2007	Bewick's Wren	1											
Ref Rip Cott 10	BWNWR	11/13/2007	Ladder-backed woodpecker					1							
Ref Rip Cott 10	BWNWR	11/13/2007	Abert's Towhee					1							
Ref Rip Cott 10	BWNWR	11/13/2007	Ruby-crowned kinglet					1							
Ref Rip Cott 10	BWNWR	11/13/2007	Yellow rumped Warbler					2							
Ref Rip Cott 11	BWNWR	11/13/2007	Bewick's Wren	3								922	17	0% CC; 1 mph wind	
Ref Rip Cott 11	BWNWR	11/13/2007	Golden Crowned Kinglet	2											
Ref Rip Cott 11	BWNWR	11/13/2007	Song Sparrow	1	1										
Ref Rip Cott 11	BWNWR	11/13/2007	Canyon Wren					1							
Ref Rip Cott 11	BWNWR	11/13/2007	Guided Flicker					2							
Ref Rip Cott 12	BWNWR	11/13/2007	Ruby-crowned kinglet	1								936	17	0% CC; 1 mph wind	
Ref Rip Cott 12	BWNWR	11/13/2007	Canyon Wren			1									
Ref Rip Cott 12	BWNWR	11/13/2007	Black Phoebe	1											
Ref Rip Cott 12	BWNWR	11/13/2007	Song Sparrow	1				1							
Ref Rip Cott 12	BWNWR	11/13/2007	Abert's Towhee		1										
Ref Rip Cott 12	BWNWR	11/13/2007	Gila Woodpecker		1										
Ref Rip Cott 12	BWNWR	11/13/2007	Guided Flicker					1							
Ref Wet 1	BWNWR	11/12/2007	American Coot	9								733	16	50% CC; no wind	
Ref Wet 1	BWNWR	11/12/2007	Western Grebe		2	1		1							
Ref Wet 1	BWNWR	11/12/2007	Marsh Wren	1											
Ref Wet 1	BWNWR	11/12/2007	Common Yellowthroat					1							
Ref Wet 1	BWNWR	11/12/2007	Red Winged Blackbird								5				
Ref Wet 1	BWNWR	11/12/2007	Song Sparrow							1					
Ref Wet 2	BWNWR	11/12/2007	Marsh Wren	1	1										
Ref Wet 2	BWNWR	11/12/2007	Clark's Grebe	1											
Ref Wet 2	BWNWR	11/12/2007	American Coot	1	2			2				753	17	50% CC; no wind	
Ref Wet 2	BWNWR	11/12/2007	Abert's Towhee		1										
Ref Wet 2	BWNWR	11/12/2007	Song Sparrow		1										
Ref Wet 2	BWNWR	11/12/2007	Common Merganser					2							
Ref Wet 2	BWNWR	11/12/2007	Great Blue Heron			1									
Ref Wet 2	BWNWR	11/12/2007	Common Yellowthroat					1	2						
Ref Wet 2	BWNWR	11/12/2007	Gadwall		2										
Ref Wet 3	BWNWR	11/12/2007	American Coot	6								758	17	50% CC; no wind	
Ref Wet 3	BWNWR	11/12/2007	Black Phoebe	1											
Ref Wet 3	BWNWR	11/12/2007	Pied billed grebe	1											
Ref Wet 3	BWNWR	11/12/2007	Marsh Wren	2											
Ref Wet 3	BWNWR	11/12/2007	Song Sparrow							1					
Ref Wet 3	BWNWR	11/12/2007	Common Yellowthroat					1							
Ref Wet 3	BWNWR	11/12/2007	Common Morhen					1							
Ref Wet 4	BWNWR	11/12/2007	Western Grebe	1								810	17	50% CC; no wind	
Ref Wet 4	BWNWR	11/12/2007	American Coot	4	2										
Ref Wet 4	BWNWR	11/12/2007	Least Bittern	1											
Ref Wet 4	BWNWR	11/12/2007	Double crested cormorant					1							
Ref Wet 4	BWNWR	11/12/2007	Black Phoebe		1										
Ref Wet 4	BWNWR	11/12/2007	Marsh Wren	1	1										
Ref Wet 4	BWNWR	11/12/2007	Abert's Towhee							1					
Ref Wet 4	BWNWR	11/12/2007	Song Sparrow							1					
Ref Wet 5	BWNWR	11/12/2007	American Coot	5	6							820	15	40% CC; no wind	
Ref Wet 5	BWNWR	11/12/2007	Abert's Towhee		2										
Ref Wet 5	BWNWR	11/12/2007	Pied billed grebe		2										
Ref Wet 5	BWNWR	11/12/2007	Clark's Grebe		1										
Ref Wet 5	BWNWR	11/12/2007	Marsh Wren	2											
Ref Wet 5	BWNWR	11/12/2007	Western Grebe	1				1							

Avian Research Surveys 2007 Nov 12-15, 2007

Point Name	Site	Date	Species	0-3 minutes			3-5 minutes				Time	Air Temp	Weather
				0-20	20-50	>50	Flyover	0-20	20-50	>50				Flyover
Ref Wet 5	BWNWR	11/12/2007	Song Sparrow			1							
Ref Wet 5	BWNWR	11/12/2007	Common Yellowthroat					2					
Ref Wet 6	BWNWR	11/12/2007	American Coot	3	1						829	17	40% CC; no wind
Ref Wet 6	BWNWR	11/12/2007	Western Grebe	4									
Ref Wet 6	BWNWR	11/12/2007	Common Yellowthroat	2									
Ref Wet 6	BWNWR	11/12/2007	Pied billed grebe	1									
Ref Wet 6	BWNWR	11/12/2007	Common Morhen			1							
Ref Wet 6	BWNWR	11/12/2007	Ladder-backed woodpecker			1							
Ref Wet 6	BWNWR	11/12/2007	Brown headed cowbird						1				
Ref Wet 6	BWNWR	11/12/2007	Marsh Wren					1					
Ref Wet 7	BWNWR	11/12/2007	Marsh Wren	2							840	18	30% CC; no wind
Ref Wet 7	BWNWR	11/12/2007	Pied billed grebe	1									
Ref Wet 7	BWNWR	11/12/2007	American Coot	4									
Ref Wet 7	BWNWR	11/12/2007	Great Egret			1							
Ref Wet 7	BWNWR	11/12/2007	Common Yellowthroat	1				1					
Ref Wet 7	BWNWR	11/12/2007	Phainopepla							1			
Ref Wet 8	BWNWR	11/12/2007	Pied billed grebe	1							849	19	30% CC; no wind
Ref Wet 8	BWNWR	11/12/2007	American Coot	7									
Ref Wet 8	BWNWR	11/12/2007	Western Grebe			1							
Ref Wet 8	BWNWR	11/12/2007	Common Yellowthroat	1				2					
Ref Wet 9	BWNWR	11/12/2007	Marsh Wren	4							858	20	30% CC; no wind
Ref Wet 9	BWNWR	11/12/2007	American Coot	1	3					2			
Ref Wet 9	BWNWR	11/12/2007	Ladder-backed woodpecker			1							
Ref Wet 9	BWNWR	11/12/2007	Phainopepla			2							
Ref Wet 9	BWNWR	11/12/2007	Gila Woodpecker			1							
Ref Wet 9	BWNWR	11/12/2007	Common Yellowthroat	1									
Ref Wet 10	BWNWR	11/12/2007	American Coot	8						2	723	17	50% CC; no wind
Ref Wet 10	BWNWR	11/12/2007	Marsh Wren	3									
Ref Wet 10	BWNWR	11/12/2007	Red Winged Blackbird				19			2			
Ref Wet 10	BWNWR	11/12/2007	Green Heron	1									
Ref Wet 10	BWNWR	11/12/2007	Western Grebe			2							
Ref Wet 10	BWNWR	11/12/2007	Double crested cormorant							1			
Ref Wet 10	BWNWR	11/12/2007	Sora							1			
Ref Wet 11	BWNWR	11/12/2007	Marsh Wren	1	3						714	19	50% CC; no wind
Ref Wet 11	BWNWR	11/12/2007	American Coot	4	6								
Ref Wet 11	BWNWR	11/12/2007	Clark's Grebe	1	1								
Ref Wet 11	BWNWR	11/12/2007	Western Grebe							1			
Ref Wet 11	BWNWR	11/12/2007	Common Yellowthroat					1					
Ref Wet 12	BWNWR	11/12/2007	Marsh Wren	3							702	20	60% CC; no wind
Ref Wet 12	BWNWR	11/12/2007	American Coot	5									
Ref Wet 12	BWNWR	11/12/2007	Common Morhen	1	1								
Ref Wet 12	BWNWR	11/12/2007	Western Grebe			2				2			
Ref Wet 12	BWNWR	11/12/2007	Eared Grebe	1									
Ref Wet 12	BWNWR	11/12/2007	Clark's Grebe			1							
Ref Wet 12	BWNWR	11/12/2007	Great Blue Heron							1			
Rest Rip Imm 1	YEW	11/15/2007	Mourning Dove			2					818	19	10% CC; 0 wind
Rest Rip Imm 1	YEW	11/15/2007	Yellow rumped Warbler			2							
Rest Rip Imm 1	YEW	11/15/2007	Ladder-backed woodpecker	2									
Rest Rip Imm 1	YEW	11/15/2007	House Finch			5							
Rest Rip Imm 1	YEW	11/15/2007	Anna's Hummingbird	1				1					
Rest Rip Imm 1	YEW	11/15/2007	Abert's Towhee			1							
Rest Rip Imm 1	YEW	11/15/2007	Unknown sparrow							4			
Rest Rip Imm 2	YEW	11/14/2007	Yellow rumped Warbler	3							1035	31	0% CC; 1mph wind
Rest Rip Imm 2	YEW	11/14/2007	Verdin	1					2				

Avian Research Surveys 2007 Nov 12-15, 2007

Point Name	Site	Date	Species	0-3 minutes				3-5 minutes				Time	Air Temp	Weather	
				0-20	20-50	>50	Flyover	0-20	20-50	>50	Flyover				
Rest Rip Imm 2	YEW	11/14/2007	Abert's Towhee	1	1										
Rest Rip Imm 2	YEW	11/14/2007	Northern Mockingbird	1											
Rest Rip Imm 2	YEW	11/14/2007	House Finch					6			3				
Rest Rip Imm 3	YEW	11/15/2007	Northern Mockingbird	1								835	23	10% CC; 0 wind	
Rest Rip Imm 3	YEW	11/15/2007	House Finch	1											
Rest Rip Imm 3	YEW	11/15/2007	Yellow rumped Warbler	2				1							
Rest Rip Imm 3	YEW	11/15/2007	Mourning Dove				1								
Rest Rip Imm 3	YEW	11/15/2007	Abert's Towhee							2					
Rest Rip Imm 4	YEW	11/15/2007	Anna's Hummingbird	1								827	20	10% CC; 0 wind	
Rest Rip Imm 4	YEW	11/15/2007	Verdin			1									
Rest Rip Imm 5	YEW	11/14/2007	Black Tailed gnatcatcher	2				1				1013	29	0% CC; 1mph wind	
Rest Rip Imm 5	YEW	11/14/2007	Bell's Vireo	1											
Rest Rip Imm 5	YEW	11/14/2007	Verdin	1				1							
Rest Rip Imm 5	YEW	11/14/2007	Blue Grey Gnatcatcher	1											
Rest Rip Imm 6	YEW	11/14/2007	Mourning Dove	7								1025	30	0% CC; 1mph wind	
Rest Rip Imm 6	YEW	11/14/2007	Abert's Towhee		1										
Rest Rip Imm 6	YEW	11/14/2007	Verdin	1				2							
Rest Rip Imm 6	YEW	11/14/2007	Yellow rumped Warbler					1							
Rest Rip Imm 7	YEW	11/14/2007	Abert's Towhee	2								1055	32	0% CC; 1mph wind	
Rest Rip Imm 7	YEW	11/14/2007	Mourning Dove	3			1				5				
Rest Rip Imm 7	YEW	11/14/2007	Blue Grey Gnatcatcher	1											
Rest Rip Imm 7	YEW	11/14/2007	Yellow rumped Warbler	4											
Rest Rip Imm 7	YEW	11/14/2007	Verdin	3											
Rest Rip Imm 7	YEW	11/14/2007	House Finch					1							
Rest Rip Imm 7	YEW	11/14/2007	Gila Woodpecker					1							
Rest Rip Imm 8	YEW	11/14/2007	Mourning Dove	1								1103	32	0% CC; 0mph wind	
Rest Rip Imm 8	YEW	11/14/2007	Yellow rumped Warbler	2				1							
Rest Rip Imm 8	YEW	11/14/2007	Verdin	1											
Rest Rip Imm 8	YEW	11/14/2007	Blue Grey Gnatcatcher	1											
Rest Rip Imm 8	YEW	11/14/2007	Northern Mockingbird					1	1						
Rest Rip Imm 8	YEW	11/14/2007	Costa's Hummingbird					1							
Rest Rip Imm 9	YEW	11/15/2007	Black Phoebe	1								843	27	10% CC; 0 wind	
Rest Rip Imm 9	YEW	11/15/2007	Abert's Towhee	2											
Rest Rip Imm 9	YEW	11/15/2007	Yellow rumped Warbler	5				1							
Rest Rip Imm 9	YEW	11/15/2007	Verdin	1				1							
Rest Rip Imm 9	YEW	11/15/2007	House Finch	5											
Rest Rip Imm 9	YEW	11/15/2007	Mourning Dove					2							
Rest Rip Imm 10	YEW	11/15/2007	Ruby Crowned Kinglet	1								853	26	20% CC; 0 wind	
Rest Rip Imm 10	YEW	11/15/2007	Verdin	1											
Rest Rip Imm 10	YEW	11/15/2007	Mourning Dove					1							
Rest Rip Imm 10	YEW	11/15/2007	Black Phoebe						1						
Rest Rip Imm 11	YEW	11/15/2007	Ladder-backed woodpecker	1								918	26	30% CC; 1 mph breeze	
Rest Rip Imm 12	YEW	11/15/2007	Double crested cormorant			8						935	26	30% CC; 1 mph breeze	
Rest Rip Imm 12	YEW	11/15/2007	Verdin	1											
Rest Rip Imm 12	YEW	11/15/2007	American Coot			1									
Rest Rip Imm 12	YEW	11/15/2007	Osprey	1											
Rest Rip Imm 12	YEW	11/15/2007	Mourning Dove							10					
Rest Rip Imm 12	YEW	11/15/2007	Ladder-backed woodpecker					1							
Rest Rip Imm 12	YEW	11/15/2007	Northern Harrier					1							
Rest Rip Imm 12	YEW	11/15/2007	House Finch					1							
Rest Rip Mat 1	YWW	11/16/2007	Abert's Towhee	3								702	18	0% CC; 2mph wind	
Rest Rip Mat 1	YWW	11/16/2007	Cooper's Hawk	2											
Rest Rip Mat 1	YWW	11/16/2007	Yellow rumped Warbler					1							

Avian Research Surveys 2007 Nov 12-15, 2007

				0-3 minutes				3-5 minutes						
Point Name	Site	Date	Species	0-20	20-50	>50	Flyover	0-20	20-50	>50	Flyover	Time	Air Temp	Weather
Rest Rip Mat 2	YWW	11/16/2007	Abert's Towhee	2								710	17	0% CC; 1mph wind
Rest Rip Mat 2	YWW	11/16/2007	Ruby-crowned kinglet	1										
Rest Rip Mat 2	YWW	11/16/2007	Yellow rumped Warbler	1										
Rest Rip Mat 2	YWW	11/16/2007	Great Tailed Grackle		1						1			
Rest Rip Mat 2	YWW	11/16/2007	Verdin	1										
Rest Rip Mat 3	YWW	11/16/2007	Verdin	1	1			1				718	16	0% CC; 1mph wind
Rest Rip Mat 3	YWW	11/16/2007	Great Tailed Grackle		1									
Rest Rip Mat 3	YWW	11/16/2007	Abert's Towhee	1										
Rest Rip Mat 3	YWW	11/16/2007	Northern Flicker				1							
Rest Rip Mat 3	YWW	11/16/2007	Ruby-crowned kinglet					1						
Rest Rip Mat 4	YWW	11/16/2007	Verdin	3								726	16	0% CC; 1mph wind
Rest Rip Mat 4	YWW	11/16/2007	Red Winged Blackbird				42							
Rest Rip Mat 4	YWW	11/16/2007	Abert's Towhee	1	1									
Rest Rip Mat 4	YWW	11/16/2007	Blue Grey Gnatcatcher	1										
Rest Rip Mat 4	YWW	11/16/2007	Mourning Dove				2				3			
Rest Rip Mat 4	YWW	11/16/2007	Yellow rumped Warbler	1										
Rest Rip Mat 4	YWW	11/16/2007	Great Tailed Grackle								3			
Rest Rip Mat 5	YWW	11/16/2007	Great Tailed Grackle		1							734	16	0% CC; 1mph wind
Rest Rip Mat 5	YWW	11/16/2007	Verdin	1										
Rest Rip Mat 5	YWW	11/16/2007	Northern Mockingbird	1										
Rest Rip Mat 5	YWW	11/16/2007	Ruby-crowned kinglet	1										
Rest Rip Mat 5	YWW	11/16/2007	Abert's Towhee	1				2						
Rest Rip Mat 6	YWW	11/16/2007	Ruby-crowned kinglet	1								743	16	0% CC; 0mph wind
Rest Rip Mat 6	YWW	11/16/2007	Blue Grey Gnatcatcher	1										
Rest Rip Mat 6	YWW	11/16/2007	Anna's Hummingbird	3										
Rest Rip Mat 6	YWW	11/16/2007	Abert's Towhee	3										
Rest Rip Mat 6	YWW	11/16/2007	Verdin	1										
Rest Rip Mat 6	YWW	11/16/2007	Marsh Wren						1					
Rest Rip Mat 6	YWW	11/16/2007	Yellow rumped Warbler					1						
Rest Rip Mat 6	YWW	11/16/2007	White Crowned Sparrow						1					
Rest Rip Mat 7	YWW	11/16/2007	Ruby-crowned kinglet	1								753	18	0% CC; 5mph wind
Rest Rip Mat 7	YWW	11/16/2007	Verdin	1										
Rest Rip Mat 7	YWW	11/16/2007	Great Tailed Grackle			1								
Rest Rip Mat 7	YWW	11/16/2007	Unidentified sparrow	1										
Rest Rip Mat 7	YWW	11/16/2007	Anna's Hummingbird	1										
Rest Rip Mat 7	YWW	11/16/2007	Blue Grey Gnatcatcher					1						
Rest Rip Mat 7	YWW	11/16/2007	Gila Woodpecker					1						
Rest Rip Mat 7	YWW	11/16/2007	Yellow rumped Warbler					1						
Rest Rip Mat 7	YWW	11/16/2007	Ladder-backed woodpecker					1						
Rest Rip Mat 8	YWW	11/16/2007	Anna's Hummingbird	1				1			2	801	19	0% CC; 5mph wind
Rest Rip Mat 8	YWW	11/16/2007	Verdin	2										
Rest Rip Mat 8	YWW	11/16/2007	Abert's Towhee	1										
Rest Rip Mat 8	YWW	11/16/2007	Blue Grey Gnatcatcher	1										
Rest Rip Mat 8	YWW	11/16/2007	Ladder-backed woodpecker		1									
Rest Rip Mat 8	YWW	11/16/2007	Unidentified Sparrow	2										
Rest Rip Mat 8	YWW	11/16/2007	House Finch		2									
Rest Rip Mat 8	YWW	11/16/2007	Northern Flicker							1				
Rest Rip Mat 9	YWW	11/16/2007	Yellow rumped Warbler	7				3				811	18	0% CC; 0mph wind
Rest Rip Mat 9	YWW	11/16/2007	Abert's Towhee	3										
Rest Rip Mat 9	YWW	11/16/2007	Verdin	1				1						
Rest Rip Mat 9	YWW	11/16/2007	Ruby-crowned kinglet	1				1						
Rest Rip Mat 9	YWW	11/16/2007	Ladder-backed woodpecker	1										
Rest Rip Mat 9	YWW	11/16/2007	Northern Flicker					1						
Rest Rip Mat 10	YWW	11/16/2007	Northern Flicker	1								820	19	0% CC; 0mph wind

Avian Research Surveys 2007 Nov 12-15, 2007

Point Name	Site	Date	Species	0-3 minutes				3-5 minutes				Time	Air Temp	Weather
				0-20	20-50	>50	Flyover	0-20	20-50	>50	Flyover			
Rest Rip Mat 10	YWW	11/16/2007	Verdin	1										
Rest Rip Mat 10	YWW	11/16/2007	Ruby-crowned kinglet	1										
Rest Rip Mat 10	YWW	11/16/2007	Yellow rumped Warbler	1				1						
Rest Rip Mat 10	YWW	11/16/2007	Abert's Towhee	1										
Rest Rip Mat 10	YWW	11/16/2007	Black Tailed gnatcatcher					1						
Rest Rip Mat 10	YWW	11/16/2007	American Robin					2						
Rest Rip Mat 10	YWW	11/16/2007	Gambel's Quail					12						
Rest Rip Mat 11	YWW	11/16/2007	Yellow rumped Warbler	1				2				838	23	0% CC; 0mph wind
Rest Rip Mat 11	YWW	11/16/2007	Verdin	2				1						
Rest Rip Mat 11	YWW	11/16/2007	Greater Roadrunner	1										
Rest Rip Mat 11	YWW	11/16/2007	Costa's Hummingbird	1										
Rest Rip Mat 11	YWW	11/16/2007	Black Phoebe					1						
Rest Rip Mat 11	YWW	11/16/2007	Mourning Dove							1				
Control Rip 1	YEW	11/14/2007	Black Phoebe	1								710	13	0% CC; 0mph wind
Control Rip 1	YEW	11/14/2007	House Finch	1	2			1			2			
Control Rip 1	YEW	11/14/2007	Brown headed cowbird	1										
Control Rip 1	YEW	11/14/2007	Abert's Towhee					3						
Control Rip 2	YEW	11/14/2007	Great Tailed Grackle	3								802	16	0% CC; 0mph wind
Control Rip 2	YEW	11/14/2007	Northern Flicker	1										
Control Rip 2	YEW	11/14/2007	Verdin	1										
Control Rip 2	YEW	11/14/2007	Blue Grey Gnatcatcher	1										
Control Rip 2	YEW	11/14/2007	House Finch	1										
Control Rip 2	YEW	11/14/2007	Red Winged Blackbird							42				
Control Rip 3	YEW	11/14/2007	Yellow rumped Warbler	4								843	25	0% CC; 0mph wind
Control Rip 3	YEW	11/14/2007	Mourning Dove	2										
Control Rip 3	YEW	11/14/2007	Abert's Towhee	1	1									
Control Rip 3	YEW	11/14/2007	Verdin	1										
Control Rip 3	YEW	11/14/2007	Ladder-backed woodpecker							1				
Control Rip 3	YEW	11/14/2007	Ruby Crowned Kinglet					1						
Control Rip 4	YEW	11/14/2007	Verdin	1								918	24	0% CC; 0mph wind
Control Rip 4	YEW	11/14/2007	Abert's Towhee	1	2			1						
Control Rip 4	YEW	11/14/2007	Yellow rumped Warbler	1										
Control Rip 5	YEW	11/15/2007	Verdin	1						1		948	30	10% CC; no wind
Control Rip 5	YEW	11/15/2007	Northern Mockingbird	1										
Control Rip 6	YEW	11/15/2007	Mourning Dove	1								1007	30	10% CC; no wind
Control Rip 6	YEW	11/15/2007	Verdin	1										
Control Rip 6	YEW	11/15/2007	Black Phoebe			1								
Control Rip 6	YEW	11/15/2007	House Finch							3				
Control Rip 6	YEW	11/15/2007	Anna's Hummingbird					1						
Control Rip 7	YEW	11/14/2007	Great Tailed Grackle		1					1		809	16	0% CC; 0mph wind
Control Rip 7	YEW	11/14/2007	Brown headed cowbird	1										
Control Rip 7	YEW	11/14/2007	Abert's Towhee	1										
Control Rip 7	YEW	11/14/2007	Verdin	1										
Control Rip 8	YEW	11/14/2007	House Finch	2						2		819	17	0% CC; 0mph wind
Control Rip 8	YEW	11/14/2007	Great Tailed Grackle	1							1			
Control Rip 8	YEW	11/14/2007	Black Tailed gnatcatcher	1										
Control Rip 8	YEW	11/14/2007	Red Winged Blackbird	2				2						
Control Rip 9	YEW	11/14/2007	Mourning Dove	1								827	18	0% CC; 0mph wind
Control Rip 9	YEW	11/14/2007	Red Winged Blackbird	5										
Control Rip 9	YEW	11/14/2007	House Finch	3										
Control Rip 9	YEW	11/14/2007	Black Phoebe					1						
Control Rip 9	YEW	11/14/2007	Northern Flicker							1				
Control Rip 9	YEW	11/14/2007	Northern Harrier								1			
Control Rip 9	YEW	11/14/2007	Verdin					1						

Avian Research Surveys 2007 Nov 12-15, 2007

Point Name	Site	Date	Species	0-3 minutes				3-5 minutes				Time	Air Temp	Weather
				0-20	20-50	>50	Flyover	0-20	20-50	>50	Flyover			
Control Wet 2	YEW	11/14/2007	Yellow rumped Warbler	3				1						
Control Wet 2	YEW	11/14/2007	American Coot	8	8									
Control Wet 2	YEW	11/14/2007	Great Tailed Grackle							1				
Control Wet 2	YEW	11/14/2007	Common Morhen					2						
Control Wet 3	YEW	11/14/2007	Yellow rumped Warbler	4				1				901	25	0 wind; 0% CC
Control Wet 3	YEW	11/14/2007	American Coot	1										
Control Wet 3	YEW	11/14/2007	Blue Grey Gnatcatcher	1										
Control Wet 3	YEW	11/14/2007	Common Yellowthroat					1						
Control Wet 4	YEW	11/14/2007	American Coot	1		5						943	26	0% CC; 1mph breeze
Control Wet 4	YEW	11/14/2007	Abert's Towhee			1								
Control Wet 4	YEW	11/14/2007	Ladder-backed woodpecker			1								
Control Wet 4	YEW	11/14/2007	Red-Winged Blackbird		2									
Control Wet 4	YEW	11/14/2007	Common Yellowthroat					1						
Control Wet 5	YEW	11/14/2007	American Coot	2								959	26	0% CC; 1mph wind
Control Wet 5	YEW	11/14/2007	Verdin	1										
Control Wet 5	YEW	11/14/2007	Song Sparrow	1										
Control Wet 5	YEW	11/14/2007	Greater Yellowlegs			1								
Control Wet 5	YEW	11/14/2007	Yellow Rumped warbler	2										
Control Wet 5	YEW	11/14/2007	Northern Mockingbird							1				
Control Wet 6	YEW	11/14/2007	Yellow rumped Warbler	3				1				932	26	0% CC; 0mph wind
Control Wet 6	YEW	11/14/2007	Black Phoebe	1										
Control Wet 6	YEW	11/14/2007	American Coot	2				2						
Control Wet 6	YEW	11/14/2007	Mourning Dove	1										
Control Wet 6	YEW	11/14/2007	Verdin					1						
Control Wet 6	YEW	11/14/2007	Abert's Towhee							1				
Control Wet 6	YEW	11/14/2007	Pied billed grebe					2						
Control Wet 7	YEW	11/14/2007	Yellow rumped Warbler	3				2				731	14	0 wind; 0% CC
Control Wet 7	YEW	11/14/2007	American Coot	4										
Control Wet 7	YEW	11/14/2007	Abert's Towhee	1										
Control Wet 7	YEW	11/14/2007	Great Tailed Grackle	3										
Control Wet 7	YEW	11/14/2007	Song Sparrow					1						
Control Wet 7	YEW	11/14/2007	Red-Winged Blackbird								5			
Control Wet 8	YEW	11/14/2007	Verdin	1								910	26	0 wind; 0% CC
Control Wet 8	YEW	11/14/2007	Black Tailed Gnatcatcher	1										
Control Wet 8	YEW	11/14/2007	Common Yellowthroat		1	1								
Control Wet 9	YEW	11/14/2007	American Coot	4								950	26	0% CC; 1mph wind
Control Wet 9	YEW	11/14/2007	Verdin	1										
Control Wet 9	YEW	11/14/2007	Black Tailed Gnatcatcher	1										
Control Wet 9	YEW	11/14/2007	Northern Mockingbird					1						
Control Wet 9	YEW	11/14/2007	Yellow rumped Warbler					3						
Control Wet 9	YEW	11/14/2007	Marsh Wren					1						
Control Wet 9	YEW	11/14/2007	Song Sparrow					1						
Control Wet 10	YEW	11/14/2007	Anna's Hummingbird	1								750	17	0% CC; no wind
Control Wet 10	YEW	11/14/2007	American Coot	2										
Control Wet 10	YEW	11/14/2007	Yellow rumped Warbler	3				3						
Control Wet 10	YEW	11/14/2007	House Finch	3	5			5	6					
Control Wet 10	YEW	11/14/2007	Red-Winged Blackbird	2										
Control Wet 10	YEW	11/14/2007	Great Tailed Grackle	1				1						
Control Wet 10	YEW	11/14/2007	Song Sparrow					2						
Control Wet 10	YEW	11/14/2007	Northern Flicker							1				
Control Wet 10	YEW	11/14/2007	White Crowned Sparrow					1						
Control Wet 11	YEW	11/14/2007	American Coot	1								740	17	0% CC; no wind
Control Wet 11	YEW	11/14/2007	Yellow rumped Warbler	2				3						

Avian Research Surveys 2007 Nov 12-15, 2007

Point Name	Site	Date	Species	0-3 minutes				3-5 minutes				Time	Air Temp	Weather	
				0-20	20-50	>50	Flyover	0-20	20-50	>50	Flyover				
Control Wet 11	YEW	11/14/2007	Great Tailed Grackle		1	1									
Control Wet 11	YEW	11/14/2007	House Finch		2				1						
Control Wet 11	YEW	11/14/2007	Red-Winged Blackbird								3				
Control Wet 12	YEW	11/14/2007	Abert's Towhee	2	1							701	16	0% CC; no wind	
Control Wet 12	YEW	11/14/2007	American Coot	3	1										
Control Wet 12	YEW	11/14/2007	Black Tailed gnatcatcher	2											
Control Wet 12	YEW	11/14/2007	Common Yellowthroat	1											
Control Wet 12	YEW	11/14/2007	Brown headed cowbird	1											
Control Wet 12	YEW	11/14/2007	Marsh Wren					3							

Research AWP Avian Data Collection Sheet

Site: NEW

Observer (s): H. Kieppel / C. Nash

Sheet 1 of 2

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes			2-5 minutes				
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover
Rest wet 9	3/14/08	8:34	23°	10% CC 0 wind	AMECOO	00							
					BLNEST	00			00				
					MORDOV	00							
					KILDEE	00	00						
					CINTEA	00	00						
					MALLAGAPWAL	00	00						
					WESSAN	00	00						
					LOBIDO	00	00						
Rest wet 10	3/14/08	8:47	22°	10% CC 0 wind	CINTEA	00							
					AMECOO	00	00						
					KILDEE	00	00						
					YERUWA	00	00						
Rest wet 11	3/14	8:54	21°	1% CC " " wind	MALLA	00							
					KILDEE	00	00						
ADS AG 1	3/14	9:11	28°	1% CC slight breeze	MORDOV								
ADS AG 2	3/14	9:19	30°	0% CC " " wind	NONE								
AG 3	3/14	9:27	32°	5% CC wind	REWFL	00	00		00	00			
AG 4	3/14	9:33	29°	1% CC " " wind	REWFL	00	00		00	00			
					WESSAN	00	00						
					MORDOV	00	00						

Research AWPf Avian Data Collection Sheet

Site: BUNUK

Observer (s): H. Klopper

Sheet of

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes			2-5 minutes			
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m
Retrip 4	3/11	748	7	Clear	ASTHEL	"	"					
					MORDON	"	"			"		
					SONSPA	"	"			"		
					GILWOOD	"	"			"		
Retrip 5	"	757	10	Imp. wind	YERUWA	"	"					
					GITA GARDON	"	"			"		
					LAPAWO	"	"			"		
					CANURE	"	"			"		
					UNIKHUM	"	"			"		
					MORDON	"	"			"		
					ABETWA	"	"			"		
					CANURE	"	"			"		
					GILWOOD	"	"			"		
					ASTHEL	"	"			"		
Retrip 6	"	806	10	Imp. wind	SONSPA	"	"					
					MORDON	"	"			"		
					RUKKI	"	"			"		
					RUKKI RUKKI	"	"			"		
					CANURE	"	"			"		
Retrip 6	"	"	"	"	GILWOOD	"	"					
					YERUWA	"	"			"		
					YERUWA	"	"			"		

Research AWP Avian Data Collection Sheet

Site: Brower

Observer (s): H. Kueppel

Sheet of

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes			2-5 minutes						
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover		
Ref Wet 2	3/10	732	11	Dzcc	MARWRE	"									
					CLAGRE	"									
					SONSPA	"									
					AMECOO	"									
					MORPON	"									
					COMYEL										
Ref Wet 3	3/10	741	13	"	SONSPA	"									
					REWIBL	"									
					MARWRE	"									
					WESGRE	"									
					MORPON	"									
					COMYEL										
Ref Wet 4	3/10	751	13	"	MARWRE	"									
					MALLA	"									
					REWIBL	"									
					AMECOO	"									
					COMMOE	"									
					LABAWO	"									
					SONSPA	"									
					PIBIGR	"									
Ref Wet 5	3/10	759	13	"	MARWRE	"									
					REWIBL	"									
					WESGRE	"									
					SONSPA	"									
					LABAWO	"									
					MORPON	"									
					AMECOO	"									

Research AWP Avian Data Collection Sheet

Site: Brower

Observer (s): H. Kueppel

Sheet of

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes			2-5 minutes						
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover		
Ref Wet 2	3/10	732	11	Dzcc	MARWRE	"									
					CLAGRE	"									
					SONSPA	"									
					AMECOO	"									
					MORPON	"									
					COMYEL										
Ref Wet 3	3/10	741	13	"	SONSPA	"									
					REWIBL	"									
					MARWRE	"									
					WESGRE	"									
					MORPON	"									
					COMYEL										
Ref Wet 4	3/10	751	13	"	MARWRE	"									
					MALLA	"									
					REWIBL	"									
					AMECOO	"									
					COMMOE	"									
					LABAWO	"									
					SONSPA	"									
					PIBIGR	"									
Ref Wet 5	3/10	759	13	"	MARWRE	"									
					REWIBL	"									
					WESGRE	"									
					SONSPA	"									
					LABAWO	"									
					MORPON	"									
					AMECOO	"									

Research AWPf Avian Data Collection Sheet

Site: Yew

*Need course points Yew
Done

Observer (s): H. Koppel

Sheet 1 of

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes			2-5 minutes				
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover
REST 12 TOWER	3/13	6:34	16	90% CC O wind	REWBLC BLADPHO HOUEIN VERDI REWBLC	" " " " "	" " " "	" "	" "	" "	" "	" "	" "
* REST 12 TOWER	3/13	6:48	13	90% CC O wind	VERDI ROSHUM HOUEIN GREGR GILWOC REWBLC CLISWA ARETRU	" " " " " " "	" " " " " "	" "	" "	" "	" "	" "	" "
REST 7	3/13	7:01	15	80% CC O wind	AMWDDT	"	"	"	"	"	"	"	"
REST 12 TOWER	3/13	7:15	16	" "	COMVEL BLNEST SONSPA MARWGE REWIBL	" " " " "	" " " "	" "	" "	" "	" "	" "	" "
REST Wet 6	3/13	7:25	18	90% CC O wind	MARWRE SONSPA MORDOV GREGR COMMOR RILDBE	" " " " " "	" "	" "	" "	" "	" "	" "	" "

Research AWPf Avian Data Collection Sheet

Site: BUNAW

RURUKI
BUNAW
CANTON

Observer (s): H Klapper

Sheet of

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes			2-5 minutes			
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover
Ref 10	3/11	838	15	S2CC	SONSPA	"	"	"				
	3/11			Imp. b. w. r.	HOUFIN	"	"	"				
					KABGILWO							
					MARWRE							
					LABAWO							
					ASTHFC							
					COS HUMA							
Ref 11	"	847	16	"	MARWRE	"	"	"				
	"				SONSPA	"	"	"				
					RURKI	"	"	"				
					GILWO	"	"	"				
					SONSPA	"	"	"				
					BLAPHO	"	"	"				
					NORFU	"	"	"				
Ref 12	"	855	16	"	MARWRE	"	"	"				
	"				LABAWO	"	"	"				
					GILWO	"	"	"				
					NORFU	"	"	"				
					SONSPA	"	"	"				
					APETON	"	"	"				
					RURKI	"	"	"				
					MERDOY	"	"	"				

Research AWP Avian Data Collection Sheet

Site: BWNR

006

Observer (s): H. Klopper

Sheet of

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes			2-5 minutes								
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover				
Ref Wet 12	3/10	655	13	0% CC 2 mph wind	MARWR	"	"	"	"	"	"	"	"				
					PIBIGR	"	"	"	"	"	"	"	"	"	"		
					COMYEL	"	"	"	"	"	"	"	"	"	"	"	
					AMECOO	"	"	"	"	"	"	"	"	"	"	"	
					CLAGRE	"	"	"	"	"	"	"	"	"	"	"	"
					COMYEL	"	"	"	"	"	"	"	"	"	"	"	"
Ref Wet 11	3/10	706	13	0% CC 1 mph wind	AMECOO	"	"	"	"	"	"	"	"	"	"		
					COMYEL	"	"	"	"	"	"	"	"	"	"	"	
					MARWR	"	"	"	"	"	"	"	"	"	"	"	
					DOCRLO	"	"	"	"	"	"	"	"	"	"	"	"
					COMMON	"	"	"	"	"	"	"	"	"	"	"	"
					REWBIL	"	"	"	"	"	"	"	"	"	"	"	"
Ref Wet 10	3/10	715	11	"	MARWR	"	"	"	"	"	"	"	"	"	"		
					MALLA	"	"	"	"	"	"	"	"	"	"	"	
					DOCRLO	"	"	"	"	"	"	"	"	"	"	"	
					GETAGR	"	"	"	"	"	"	"	"	"	"	"	
					COMYEL	"	"	"	"	"	"	"	"	"	"	"	
					AMECOO	"	"	"	"	"	"	"	"	"	"	"	
Ref Wet 1	3/10	724	11	"	GETAGR	"	"	"	"	"	"	"	"	"	"		
					MARWR	"	"	"	"	"	"	"	"	"	"	"	
					CLAGRE	"	"	"	"	"	"	"	"	"	"	"	
					PIBIGR	"	"	"	"	"	"	"	"	"	"	"	
					AMECOO	"	"	"	"	"	"	"	"	"	"	"	
					DOCRLO	"	"	"	"	"	"	"	"	"	"	"	

COMMON WE-SOME

0

Research AWP Avian Data Collection Sheet

Site: VEW

Observer(s): A Klueppel & N. Nash

Sheet 4 of 5

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes			2-5 minutes						
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover		
RC10	3/15	8:30	23°	0% CC	SONSDA	"	"			"					
	3/12			0 wind	VERDI	"	"			"					
					ASTHFL		"								
					MURDOV		"			"					
					BRHECO		"			"					
					COMVEL		"			"					
					REWIIBL		"			"					
NCS	3/13	8:42	22°	0% CC	REWIIBL				☒						
	3/12			Slight breeze											
NCS	3/13	8:49	24°	0% CC	LABAWO										
	3/12			0 wind											
RC4	3/15	8:57	24°	" "	VERDI	"	"			"					
	3/12			" "	MURDOV	"	"			"					
					BRHECO		"			"					
					BRHECO		"			"					
NCS	3/13	9:04	24°	0% CC	VERDI	"	"			"					
	3/12			1 MPH breeze	AMECOO	"	"			"					
					MURDOV		"			"					
NCS	3/13	9:15	26°	" "	AMECOO	"	"			"					
	3/12			1 MPH wind	COMVEL	"	"			"					
					BRHECO		"			"					
					ASTHFL		"			"					

Research AWP/ Avian Data Collection Sheet

1/2 W

Observer (s): # 110222

Sheet 2 of 5

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes			2-5 minutes								
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover				
CONVERT 3/12	3/12			0% CC 0 Wind	HOUEFIN VERDE												
CONVERT 3/12	3/12	7:28	15°C	" " CC " " Wind	MORDOV VERVINA REWTIBL AMECOO												
CONVERT 3/12	3/12	7:36	14°C	" " CC " " Wind	SONSPA GRTAGR REHECO AMUHM COMYEL MORDOV REWTIBL VERDI LABAWD												
CONVERT 3/12	3/12	7:44	13°C	" " CC " " Wind	ASTHFL ABETOW REHECO HOUEFIN MORDOV REWTIBL COOHAW												
CONVERT 3/12	3/12	7:57	13°C	" " CC " " Wind	HOUEFIN MORDOV ASTHFL REHECO LABAWD GRTAGR												

LABAWD
GRTAGR

Research AWPf Avian Data Collection Sheet

Site: Yew

*Need course points Yew
Done
Observer (s): H. Koppel

Sheet 1 of

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes			2-5 minutes				
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover
REST 12 TOWER	3/13	6:34	16	90% CC O wind	REWBLC BLADPHO HOUEFN VERDI REWBLC	" " " " "	" " " "	" "	" "	" "	" "	" "	" "
* REST 12 TOWER	3/13	6:48	13	90% CC O wind	VERDI ROSHUM HOUEFN GREGR GILWOC REWBLC CLISWA ARETRU	" " " " " " "	" " " " " "	" "	" "	" "	" "	" "	" "
REST 7	3/13	7:01	15	80% CC O wind	AWWDDT	"	"	"	"	"	"	"	"
REST 12 TOWER	3/13	7:15	16	" "	COMVEL BLNEST SONSPA MARWGE REWIBL	" " " " "	" "	" "	" "	" "	" "	" "	" "
REST Wet 6	3/13	7:25	18	90% CC O wind	MARWRE SONSPA MORDOV GREGR COMMOR RILDBE	" " " " " "	" "	" "	" "	" "	" "	" "	" "

Research AWPf Avian Data Collection Sheet

Site: BUNAW

RURUKI
BUNAW
CANTON

Observer (s): H Klapper

Sheet of

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes			2-5 minutes			
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover
Ref 10	3/11	838	15	S2CC	SONSPA	"	"	"				
	3/11			Imp. b. w. r.	HOUFIN	"	"	"				
					GILWOOD							
					MARWRE							
					LABAWO							
					ASTHFC							
					COS HUMA							
Ref 11	"	847	16	"	MARWRE	"	"	"				
	"				SONSPA	"	"	"				
					RURUKI	"	"	"				
					GILWOOD	"	"	"				
					SONSPA	"	"	"				
					BLAPHO	"	"	"				
					NORFU	"	"	"				
Ref 12	"	855	16	"	MARWRE	"	"	"				
	"				LABAWO	"	"	"				
					GILWOOD	"	"	"				
					NORFU	"	"	"				
					SONSPA	"	"	"				
					APETON	"	"	"				
					RURUKI	"	"	"				
					MERDOY	"	"	"				

Research AWP Avian Data Collection Sheet

Site: Yard

Observer (s): DMW H. Hoopel

Sheet of

Point Name & Number	Date	Time	Air Temp. (C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes			2-5 minutes						
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover		
RES RIP 1	1/15/08	815	9	19 CC Quint	MOURDOR	"	"	"							
JAMM1					YERVIA ABETBY	"									
RES RIP 3	1/15	823	8	"	MORFL COMYEL REWIRL	"	"	"						"	
RES RIP 4	1/15	831	9	"	VERDI WADSP NODFL REWIRL	"	"	"						"	
RES RIP 5	1/15	840	9	"	COHAW UNESPA	"	"	"							
RES RIP JMM4	1/15	854	10	"	YERVIA VERDI	"	"	"							
RES RIP JMM3	1/15	902	11	"	CABAWD BLTAGN YERVIA	"	"	"					"	"	
RES RIP JMM9	1/15	911	13	"	VERDI CABAWD ABETBY YERVIA CAGWRE MOODON	"	"	"					"	"	"
					NORMO HAWFIN	"	"	"					"	"	"

Research AWP/ Avian Data Collection Sheet

Site: Yaku Yaku

Observer (s): H. Koenig

Sheet of

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes			2-5 minutes						
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover		
Res Rip Mat 1	11/01/08	732	11	5 mph SW	COOYAW	'									
Res Rip Mat 2	"	739	11	"	COYAW MOUDON										
Res Rip Mat 3	"	748	9	"	POPCOM YELLOWA GRACKLE COWBIRD REWBIRD	'									
Res Rip Mat 4	"	756	9	"	MOUDON YELLOW										
Res Rip Mat 5	"	804	12	"	RUCKER MOUDON	'									
Res Rip Mat 6	"	813	12	0% CC 9 mph wind	AMULTWA VERDI MOUDON BCEGEGD ABEABW	'	'								
Res Rip Mat 7	"	821	11	5% CC 5 mph	ABABO AMULTWA VERDI	'	'								
Res Rip Mat 8	"	828	13	"	VERDI CARBAND BCEGEGD	'	'								

VERDI
AMULTWA

VI

Research AWP/ Avian Data Collection Sheet

DATE

Site: Yew

Observer (s): H. Klopffer

Sheet of

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes			2-5 minutes					
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover	
CONWET 11	11/14	813	14	5 mph 0% CC	AMERCOO SONSRA NORHAR HOUEW MOUDON	•	••		•		•••			
CONWET 10	11/14	823	14	0 " "	ABETON YERUWA SONSRA			•			•			
CONRIP 2	11/14	834	14	" "	HOUEW ABETON			•			•			
CONRIP 7	11/14	842	15	" "	DOUPEO YERUWA			•			•			
CONRIP 8	11/14	852	16	" "	MOUDON VERDI SONSRA ABETON			•			•			
CONRIP 9	11/14	900	16	" "	MOUDON NORHAR YERUWA			•			•			
CONRIP 11	11/14	907	16	0% CC 5-10 mph	ABETON VERDI			•			•			

AWPF Avian Data Collection Sheet

Site: YUNWANG

Doug

Observer (s): H. K. Heppel

Sheet of

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes			2-5 minutes							
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover			
Ref Pil 8	1/7	916	2	1 mph NW 0% CC	YERUWA SONSPA	1				1						
Ref Pil 9	1/7	925	7	2 mph WZL 0% CC	SONSPA YERUWA LABAWO CANDRE	1				1						
Ref Pil 10	11	933	7	"	YERUWA LABAWO VERDI SONSPA BLADHO ABELOW NORFLY BLTAGN	1				1						
Ref Pil 11	"	943	6	"	BLADHO YERUWA SONSPA	1				1						
Ref Pil 12	"	953	7	"	SONSPA YERUWA GALWOO	1				1						

Research AWP Avian Data Collection Sheet

Site: DUNBAR

Observer (s): M. Moser

Sheet: _____

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes			2-5 minutes		
						0-20m	20-50m	>50m	0-20m	20-50m	>50m
Ref Rip 1	11/7/06	757	-1	0% CC no wind	GILWOOD SONSPA						
Ref Rip 2	11/10/06	808	-2	slight breeze 0% CC	GILWOOD YELUWA						
Ref Rip 3	1/12	820	-2	0% CC slight breeze	CAUNGE LABAWO						
Ref Rip 4	"	832	-1	0% CC slight breeze	SITARA LABAWO YELUWA						
Ref Rip 5	"	840	-1	"	BETAR BIAGN SONSPA						
Ref Rip 6	"	854	-1	"	ABETA YELUWA NORFL BIAGN						
Ref Rip 7	"	906	-1	"	YELUWA SONSPA GILWOOD						X

Research AWP Avian Data Collection Sheet

Site: BWNWR

Observer (s): H. Schweppel

Sheet of

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes			2-5 minutes					
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover	
Ref wet 1118	8/07		5	5mph	AMECCO	..								
wet 1208				0% CC	DOBLCO CLAGRE WESGRE RIBLGULL	..	..	..	..	
Ref wet 1118/08	8/08	820	4	"	CLAGRE AMECCO WESGRE MARWRE	..	..	..	..					..
Ref wet 1118	"	829	4	"	COMMER CLAGRE WESGRE AMECCO DOBLCO MARWRE RIBLGULL	..	..	..	..					..
Ref wet 1118	"	839	5	"	GRBLHE AMECCO WESGRE DOBLCO MARWRE	..	..	..	..					..
Ref wet 1118	"	849	7	2mph 0% CC	AMECCO WESGRE NORSHO HEB-GULL DOBLCO RIBLGULL	..	..	..	..					..

Research AWP/ Avian Data Collection Sheet

Site: VERU

Observer (s): DONE H. Kroeppel

Sheet of

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes			2-5 minutes							
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover			
CON WEST9	11/14/08	1000	19	10wph 0%CC	VERULIN POMYEL COOHAW AMECOO	"	"	"								
NetCon 5	11/14	1008	19	15wph 0%CC	VERD1 VEROWA AMECOO ABSDWA	"	"	"		"	"					
Wet Con6	11/14	1017	19	15wph 0%CC	AMECOO VEROWA SPOSAND BUADHD	"	"	"		"	"					
ImmRP Res 5	11/14	1028	19	"	NOEEL VEROWA VERD1 COOHAW	"	"	"		"	"					
ImmRP Res 6	11/14/08	1037	19	"	VERD1	"	"	"		"	"					
ImmRP Res 2	11/14	1046	19	"	ROCDV VERD1 VEROWA	"	"	"		"	"					

Research AWP Avian Data Collection Sheet

Site: VERU

Observer (s): DONE H. Kroeppel

Sheet of

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes			2-5 minutes							
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover			
CON WEST9	11/14/08	1000	19	10mph 0%CC	VERVUA POMVET, COOHAW AMECOO	"	"	"								
MetCon 5	11/14	1008	19	15mph 0%CC	VERD1 VEROWA AMECOO ABSDW	"	"	"		"	"					
Met Con6	11/14	1017	19	15mph 0%CC	AMECOO VEROWA SPOSAND BLAPHD	"	"	"		"	"					
IMM RP RES 5	11/14	1028	19	"	NOEF1 VEROWA VERD1 COOHAW	"	"	"		"	"					
IMM RP RES6	11/14/08	1037	19	"	VERD1	"	"	"		"	"					
IMM RP RES 2	11/14	1046	19	"	ROCDV VERD1 VEROWA	"	"	"		"	"					

Research AWPf Avian Data Collection Sheet

Site: Yellow Yellow

Observer (s): H. Kieppel

Sheet of

Point Name & Number	Date	Time	Air Temp. (C)	Weather (% CC, Wind Speed)	SPECIES	0-2 minutes			2-5 minutes							
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover			
Res Rip Mat 1	11/6/08	732	11	5 mph SW	COOPIHAW	'										
Res Rip Mat 2	"	739	11	"	GR TACKLE MOUDON					"						
Res Rip Mat 3	"	748	9	"	DOG BOW YELLOWA GR TACKLE COMYEL REWBAC					"						
Res Rip Mat 4	"	756	9	"	MOUDON YELLOW					"						
Res Rip Mat 5	"	804	12	"	RUCKER MOUDON					"						
Res Rip Mat 6	"	813	12	0% CC 9 mph wind	AMULBIM VERDI MOUDON DC GLEGN ABE BOW											
Res Rip Mat 7	"	821	11	5% CC 5 mph	ABE BOW AMULBIM YELLOWA VERDI CARBAND DC GLEGN											
Res Rip Mat 8	"	828	13	"	VERDI CARBAND DC GLEGN											

YELLOWA
DC GLEGN

VI

Research AWP Avian Data Collection Sheet

Site: NEW

2006

Observer (s): H. Keppel + G. Nash

Sheet 1 of

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes			2-5 minutes					
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover	
Wetland 1	5/27	5:24	18°	0% CC	YELBL	☒☒☒☒☒☒					50			
				0% CC	REWI BL	"					"			
					MOR DOV	"					"			
					BLU GRO	"					"			
					WHWI DD	"					"			
					GR TA GR	"					"			
					AMECCO	"					"			
				0% CC										
Wetland 2	5/27	5:31	19°	0% CC	GR TA GR	"					"			
TAKA 4					WHWI DD	"					"			
					LA BRAWD	"					"			
					BLU GRO	"					"			
					ASTA FL	"					"			
					MOR DOV	"					"			
					YELBL	"					"			
					REWI BL	"					"			
					BROGOW	"					"			
					COM YEL	"					"			
Region 1	5/27	5:38	15°	0% CC	BLU GRO	"					"			
				0% CC	ABETOW	"					"			
				0% CC	WHWI DD	"					"			
					HOUFIN	"					"			
					BROGOW	"					"			
					MOR DOV	"					"			
					WESKIN	"					"			
					VERDI	"					"			

Site: SEW

Observer (s): H. Klepper + C. Nash

Sheet of

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes			2-5 minutes					
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover	
Res 10	5/28	7:16	25°	0% CC	NEHERBL	•	•			•	•			
				0 wind	GR TARE		•							
					MAR WRE	•								
					CLISWA				•					
					AM COMMON					•				
					BRO COW					•				
Res 13	5/28	7:26	25°	0% CC	MAR WRE	•								
				0 wind	HOUFIN	•								
					COM TEL	•								
					NEHERBL	•								
					CLISWA				□					
					LABA WD					•				
Res 15	5/28	7:39	26°	0% CC	ALNEST	•								
				0 wind	KIL DEE	•								
					NEHERBL		•			•				
					MAR WRE						•			
					WAWSDO									•
Res 10	5/28	7:50	27°	0% CC	ASTHEL	•								
IMM 1				0 wind	VERDI		•							
					MOR DON		•							
					WHWID		•							
					WESKIN					•				
					CLISWA						•			
					ABE TOW							•		•

Research AWPf Avian Data Collection Sheet

Site: VEN

Handwritten initials

Observer (s): H. V. Klappert + C. Nishi

Sheet of

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes			2-5 minutes								
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover				
Res #10 IMM4	5/28	8:03	27°	0% CC 0 mph wind	ACTHGL VERDI MORDOV REWI BL ABETOW COMVEL BLAPHD	°			°°								
Res #10 IMM3	5/28	8:11	27°	0% CC 1 mph wind	BLUGRD WILFLY WHWIDO VERDI ABETOW MORDOV BROCOM		°°	°									
Res #10 IMM9	5/28	8:14	28°	0% CC 1 mph wind	MORDOV WHWIDO BROCOM VERDI HOUEIN WHWIDO	°°	°°										°°
Res #10 IMM10	5/28	8:27	29°	0% CC 1 mph wind	ROARKUN WHWIDO ASTHFL COMVEL REWI BL BROCOM	°	°°		°					°°			°°

Site: NEW

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes			2-5 minutes																
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover												
CONWARD COND.	5/21	6:03	14°	0% CC 0 wind	GR T A G R																				
					Y E H E B L																				
					W I L F L Y																				
					B R D C L O W																				
					M U R D O V	°	°	°																	
					W H I D O	°	°	°																	
					B L U G R O																				
					B L T A G N																				
					V E R D I																				
					B R D C L O W																				
R E W I B L																									
B A M B U A																									
R C 7	5/21	6:12	12°	0% CC 0 wind	B R D C L O W	°	°	°																	
					W H I D O	°	°	°																	
					A S T H F L	°	°	°																	
					C A C W R E																				
					B L U G R O																				
					A B E T O W																				
					R E W I B L																				
					V E R D I																				
R C 8	5/21	6:30	11°	0% CC 0 wind	W H I D O	°	°	°																	
					C O M Y E L																				
					A B E T O W																				
					B R D C L O W																				
					R E W I B L																				
					C A C W R E																				
					H O U F I N																				
					M O R D O V																				
					G R T A G R																				

GR T A G R

GR T A G R

Research AWP/ Avian Data Collection Sheet

Done

Observer (s): Heidi Kloppe & L. Nyssa

Sheet _____ of _____

NEW

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes			2-5 minutes						
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover		
WGA	5/27	7:51	29°	0% CC, 0% wind	VER WAR										
PRIM5/ PLOT 3	5/27	8:03	25°	0% CC, 0% wind	WHWIDU BLTAGN ABETDW BLUGRO COMNEL BROCOM GRBLHE VERDI	° ° °° ° °° ° ° °								°° °° °°	
PRIM5/ PLOT 3	5/27	8:15	26°	0% CC, 0% wind	VERDI WHWIDU WILFLY BROCOM REWIBL ASTHFL CLISWA	°° ° ° ° ° ° °			°°					°° °° °°	
PRIM5/ PLOT 1	5/27	8:24	27°	0% CC, 0% wind	ABETDW WILFLY MORDOV REWIBL BLA PHO VERDI CLISWA COMNEL BLUGRO	° ° ° ° ° °° ° ° °							°° °° °°		

Research AWP/ Avian Data Collection Sheet

Site: NEW

Observer (s): H. Kibppel + C. Nash

Sheet 4 of

Point Name & Number	Date	Time	Air Temp. (C)	Weather (% CC; Wind Speed)	SPECIES	0- 2 minutes			2-5 minutes								
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover				
TARA1	5/26	8:51	20°	0% CC 5-10MPH WIND	KILDEE BLNEST	°	°	°									
TARA3	5/26	8:59	20°	0% CC 10MPH WIND	✓												
TARA6A	5/26	9:06	20°	0% CC 10MPH WIND	REWIBL												
AR002	5/26	9:20	22°	0% CC 5-10MPH WIND	WHWIDD REWIBL WESKIN GAMBUIA VELWAR KILDEE MDRDOV		°°										
TOSSE4	5/26	9:36	20°	" " CC " " WIND	WHWIDD MDRDOV LA BIA WD		°										
TARA4	5/26	9:44	23°	" " CC " " WIND	GREHER VIRDEN WHWIDD ARETOW KILDEE BLUGRO		°										
TOSSE3	5/26	9:55	25°	" " CC " " WIND	WHWIDD ASTARU	°	°°										

CLITHA
BEIVIR
MDRDOV

Research AWPf Avian Data Collection Sheet

Site: NEW

Observer(s): A. K. Lopez + G. Nash

Sheet of

Point Name & Number	Date	Time	Air Temp. (C)	Weather (% CC, Wind Speed)	SPECIES	0-2 minutes			2-5 minutes								
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover				
Tese 6	5/27	6:56	20°	0% CC	WHWID0	°°											
				0 wind	MDRDOV		°			°							
					WESKIN					°°							
					LARAWD												
					CACWRE												
					BRDCOW					°							
Teses	5/27	8:39	27°	0% CC	LARAWD		°										
				0 wind	WHWID0					°							
					CLISWA												
					BRDCOW					°							
					VERDI					°							
Tava 7	5/27	8:52	29°	0% CC	MDRDOV					°							
				0 wind	WILFLY		°										
					CLISWA					°°							
					VERDI												
PIDHS	5/27	9:18	30°	0% CC	VERDI	°°				°							
				0 wind	ANNHUM					°							
					BLAPHO												
					COMTEL					°							
					WILFRH												
PIDH4	5/27	9:31	30°	0% CC	MDRDOV					°°							
				0 wind	TURVIL					°							
					MDRWSN												
					WILFLY												
					ABETOW					°							
					COMTEL					°							

Yuma East Wetlands Avian Data Collection Sheet

Site: YEW RAWPF

Observer(s): L. Priest

Sheet 1 of 8

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes				2-5 minutes			
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover
COREY	7-6-08	0458	27	0, 2	LENI				1				1
					BLGR			11					
					MODD			11					
					ABTO		1	11					
					WEKI			1					
					GAQU			.					
					WWDO			.					
					CRTH							.	
COREY 2	7-6-08	0507	27	0, 1	MODD			.				.	..
					WWDO			.					
					LEBI			.					
					RWBB			30					
					BLGR			.					
					GTGR			11					.
					WWDO			11					..
					LENI							.	
					COYE							.	
					ABTO							..	
					YHBB							.	
COREY	7-6-08	0515	26	0, 0	RWBB			1300					
					MODD			.				.	
					WWDO			.				.	
					ABTO			.					
					LENI								.
					BLGR							.	
					CLSW								20
					BCNA								.
COREY	7-6-08	0527	26	0, 0	BLGR			.					
					BHCO			..					
					ABTO			.					

Yuma East Wetlands Avian Data Collection Sheet

Site: YEW KAWPF

Observer(s): L. Priest

Sheet 5 of 8

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0- 2 minutes				2-5 minutes			
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover
CO RI 11	(cont.)				BLGR			.					
					CRTH						.		
COWE44	7-6-08	0636	27	0,0	VERD			.					
					A TEL			.					
					W W D O			..					
					COYE		.	.		.			
					R W B B			..				..
					GAQU			.					
					GRAE			..					
					R N P H			.					
					WEKI			..					
					R W S W			.					
					ABTO			.					
					Y H B B					.			
					B H C O						.		
					LBWO						.		
COWE9	7-6-08	0444	28	0,1	ABTO			.			.		
					VERD			..					
					HOFI				..				
					R W B B			.					
					COYE			.			.		
					BLGR			.					
					LBWO			.					
					COMO			..					
					W W D O			..				..
					GAQU						.		
					R W B B								□
					M O D O						.		
					B T G N						.		
					WEKI						.		

Yuma East Wetlands Avian Data Collection Sheet

Site: YEW RAWPF

Observer (s): L. Priest

Sheet 6 of 8

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes				2-5 minutes			
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover
COWE9	(cont.)				CLSW BCHU								∴
saw YBCU to west after survey (while driving)													
x RRIM5Y	7-6-08	0700	29	0,1	BHCO MODO VERD ABTO GTGR COYE RWBB LBWD			∴					∴
x RRIM6	7-6-08	0708	29	0,0	GIWD WWDO GTGR COYE WEKI ABTO YHBB BHCO ETGR RWBB VERD NOMO			∴					∴
x RRIM2	7-6-08	0717	30	0,0	WWDO ROPI VERD ABTO MODO GTGR BHCO			∴					∴

Yuma East Wetlands Avian Data Collection Sheet

Site: YEW RAWPF

Observer(s): L. Priest

Sheet 7 of 8

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes				2-5 minutes			
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover
RRIM2 (cont.)					RWBB				1				
					HOFI							.	
					GIWO							.	
					NOMO							.	
					VERD							.	
					COYE							.	
					WEKI							.	
RRIM2 (8)	7-6-08	0747	33	0,3	VERD	..		.					
					MODO			.					.
					ABTO			.				.	
					GTGR								
					GIWO				1				
					WWDO			.				.	2.
					BHCO							.	
					KILL							.	
					YHBB							..	
COR110	7-6-08	0804	34	0,3	CLSW			750	30				
					WEKI		.						
					WWDO			1:			.	2	
					MODO			1					..
					COYE			.					
					RWBB			.	2:				
					LBWO								
					VERD							.	6
					COMO							.	
COWE3Y	7-7-08	0812	34	0,2	WWDO			1:	.		.	.	
					MODO			..					
					CLSW				30				
					VERD			.				.	
					WEKI			.				.	

Yuma East Wetlands Avian Data Collection Sheet

Site: YEW RAWPF

Observer (s): L. Best

Sheet 8 of 8

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes				2-5 minutes			
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover
					LBWO			.					
					COYE		.						
					BLGR						.		
					BTGR								..
COWE8	7-6-08	0819	34	0,3	WWDO		.	!					
					COYE CLSW				.				.
					YBCU			.					
					MODO			..					
					VERD			.					
					COYE		.	.					
					WEKI			..					
					BLGR							..	
					RWBB								U
					BACO							.	
COR14Y	7-6-08	0829	34	0,3	MODO			.					
					WWDO			..					..
					BLGR			.					
					ABTO			.				.	
					WEKI			U					
					ATFL			.					
					unident. swallow								.
					COMO							.	
					VERD			..					
COWE6Y	7-6-08	0836	33	0,3	WWDO			..	.				
					MODO		.	..				.
					ABTO			.				.	
					VERD			.					
					COYE			.				.	
					BHCO			.					
					RWBB			.					

Yuma East Wetlands Avian Data Collection Sheet

Site: YEW RAWPF

Observer (s): L. Priest

Sheet 1 of 6

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes				2-5 minutes			
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover
RWE11	7-7-08	0503	28	0,0	KILL		..						
					BNST			.		.			.
					ABTO			.					
					WEKI			.					
					BLGR			.					
					WWDO								.
					LENI								.
					COMO							.	
RWE10	7-7-08	0512	28	0,0	BNST			.	→	.			
					KILL	←		.					
					SNEG			..					
					GREG			..					
					BLGR							.	
					LENI								.
RESWE9	7-7-08	0521	26	0,0	LENI				..				..
					KILL	..							
					BLGR				.				
					GREG			.					
					BNST	.							..
					CLSW								15,30
					GBHE								.
AG3	7-7-08	0529	26	0,0	MODO			.					.
					KILL			..	40				..
					CLSW								..
					GRHE			.				.	
					AMKE								.
AG4	7-7-08	0537	26	0,0	WWDO				13				.. 20,35
					MODO				..				
					RWBB			.					
					CLSW				50				115

Yuma East Wetlands Avian Data Collection Sheet

Site: YEW RAWPF

Observer(s): L. Priest

Sheet 2 of 6

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes				2-5 minutes			
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover
AG4 (Cont.)					KILL							.	.
AG5	7-7-08	0545	26	0,0	CLSW				30				20
					RWBB			..					10
					KILL		..						
					MODO		.					.	.
					WWDO								..
AG6	7-7-08	0552	26	0,1	RWBB		..	20,20				10	..
					LBCU							.	
					CLSW				10				10
					WWDO								23
					MODO								..
					GRHE							.	
AG7	7-7-08	0603	26	0,0	CLSW				40 40	.			150
					RWBB			120	140			.	80
					GRHE			.					
					KILL							.	
					LBWU							.	
					VERD							.	
					COYE							.	
					WWDO								.
					BLGR							.	
AG2	7-7-08	0611	27	0,0	CLSW				45				
					BLGR			.					
					WWDO			.					.
					RWBB				70			20	43
					MODO				.			.	..
					GRHE							.	
					BHCO							..	
COR14	7-7-08	0622	27	0,0	RWBB				..				..
					WWDO			..					..

Yuma East Wetlands Avian Data Collection Sheet

Site: YEW RAWPF

Observer(s): L. Priest

Sheet 3 of 6

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0- 2 minutes				2-5 minutes			
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover
COR16	(cont.)				BHCO			.					
					MODO			.				.	..
					BLGR			..					
					COYE			.					
					GTGR				..				
					CLSW				80				35
					GRHE							.	
					ABTO								
COR15	7-7-08	0632	27	0,0	MODO			.	.				.
					WWDO			.			.		
					BHCO		.	.					
					ATFL			.					
					RWBB		.	.	.				10
					BTGN		.	.					
					VERD						.		
					ANHU					..			..
					CLSW								80
COR12	7-7-08	0641	28	0,0	WWDO			..	..			.
					BLGR			.					
					VERD		.	.					
					GREG			.					
					RWBB				.				L'
					ECDO				10				
					MODO				.				..
					BHCO								..
					CLSW								.
					GTGR								..
REWE3	7-7-08	0702	29	0,0	KILL			.					
					YHBB		..	.			..	.
					VERD		.						

Yuma East Wetlands Avian Data Collection Sheet

Site: YEW RAWPF

Observer (s): L. Priest

Sheet 4 of 6

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes				2-5 minutes				
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover	
REWE3	(cont.)				BHCO occident. hummingbird BTGR MODO BLGR ABTO SNEG CLSW GRHE			.	.					
RESWE4	7-7-08	0714	31	0,0	BHCO MODO RWBB YHBB WWDD GIWD GTGR CLSW HOFI MAWR			..	..			
REWE5	7-7-08	0729	32	0,0	VERD RWBB MODO GTGR YHBB BLPH		L	.	.					□
RESWE8	7-7-08	0742	33	0,1	MODO WWDD VERD LBWO RWBB		.	□:1	.			.	..

Yuma East Wetlands Avian Data Collection Sheet

Site: YEW RAWPF

Observer (s): L. Priest

Sheet 5 of 6

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes				2-5 minutes			
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover
RESWEB (cont.)					WEKI								
RRIM11	7-7-08	0750	34	0,1	VERD		.						
					WWDO			..					
					KILL			.					
					MOD0			..		..		□ ←	..
					ABTO			.					
					RWBB				.				
					GBHE						.		
					GREG								.
					YHBB								..
RRIM12	7-7-08	0759	35	0,0	KILL			.		✓			
					VERD			.					
					ABTO			.			.		
					WWDO			..					
					WEKI			.					
					RWBB				L				..
					MOD0			..					..
					BNST			..					
					YHBB						1:		.
					CLSW								.
REWE12	7-7-08	0811	35	0,0	GTBR				.				
					BHCO				..				
					MOD0		..	20				1:	..
					GREG			.					
					WWDO			.					
					unident. BB								..
					KILL						.		
RESWE7	7-7-08	0820	36	0,2	ABTO			.					
					KILL			.					
					WWDO				.				..

Yuma East Wetlands Avian Data Collection Sheet

Site: YEW SWFL

Observer (s): L. Priest

Sheet 1 of 1

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0- 2 minutes				2-5 minutes			
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover
Wet 5 = WC2	7-8-08	0458	28	10, 4	COYE			..				.	
					GTGR			.					
					YHBB			..					
					RWBB			..					
					WWDO			.				.	
					BLGR			..					
					LENI							.	
TESEL	7-8-08	0409 5	28	10, 3	ABTO		.	.					
					CRTH		.						
					MODO		.	.					
					WWDO			.					
					LENI							.	
					WEKI			.					
					COYE							.	
RIPIA = RC3	7-8-08	0416 5	28	15, 5	BLGR							.	
					COYE		.	.				.	
					WWDO			..				.	
					RWBB							.	
					ABTO			.					
					WEKI			.				.	
					BLGR			.					
RIVS = NCS	7-8-08	0525	29	15, 7	MODO			.					L
					COYE			..					
					ABTO			..					
					COMO			.				.	
					CLSW							.	
					MODO							.	L
					WWDO							..	
AMCO							..						
ATEL							.						

Yuma East Wetlands Avian Data Collection Sheet

Site: YEW SWFL

Observer(s): L. Prest

Sheet 3 of 6

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0- 2 minutes				2-5 minutes				
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover	
PIL1 (cont.)					RWBB									..
TESES	7-8-08	0611	29	5, 7	BLGR			.						
					MODO			..						
					VERD			..						
					CMSW									D
TARA7	7-8-08	0621	30	0, 6	MODO			.						
					COYE		.							
					ABTO		.							
					unident. hummingbird				.					
					WWDO							.		.
WET6	7-8-08	0629	30	0, 6	VERD		..							
					RWBB				.			..		..
					GTGR		.							
					WWDO			.						.
					COYE			.						.
					ABTO									.
					ROPI									H
					BNST							..		..
PIL6 =	7-8-08	0648	31	0, 3	GTGR	H				.				
RRIM7					BHCO	..								
					WWDO			.	.	.				
					COYE	.								
					VERD	.	.							
					RWBB									.
					MODO									.
					LBWO									.
PIL5	7-8-08	0654	31	0, 4	GTGR	20	9w			5				
					VERD		.							
					WWDO			.						.
					LBWO			.						.

Yuma East Wetlands Avian Data Collection Sheet

Site: YEW SWFL

Observer (s): L. Priest

Sheet 4 of 6

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes				2-5 minutes			
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover
PIL5 (cont.)					ROPI				::				
					BHCO		.						
					CLSW								..
PIL4	7-8-08	0703	31	0,3	ROPI				.				
					WWDO				.			.	
					MODD				::			.	.
					GTGR				:			.	
					ABTO						.	.	
					BHCO							.	
					VERD						..		
					GIWO							.	
WET1 =	7-8-08	0720	32	0,3	YHBB	::				..	::		
RESWE1					GTGR	..		.				::	
					MODD		.						
					WEKI				..				
					WWDO				::			.	
					MAWR	.							
					ECDO								..
					KILL							.	
					BHCO							.	
WET2 =	7-8-08	0731	32	0,7	KILL		.						
RESWE2					VERD		.						
					SNEG				.				
					RWBB				..			☒::	
					WWDO				.			.	
					YHBB				.				
					LBWO						.		
					ABTO							.	
ARDO4	7-8-08	0740	33	0,8	MODD				::			::	.
					WWDO				:			.	

Yuma East Wetlands Avian Data Collection Sheet

Site: YEW

Observer (s): L. Priest

Sheet 2 of 6

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0- 2 minutes				2-5 minutes			
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover
Riv 1	7-2-08	0542	21	0, 1	CLSW				30, 20				20, 15
					WUDO			..				.	
					BHCO		.						
					GTGR		.						
					BLGR		.						
					RWBB						.		..
					COYE							.	
Riv 9	7-2-08	0550	20	0, 0	RWBB				□				
					COYE		.						
					BLGR		.						
					ABTO		.						
					GTGR		.					..	
					WUDO			.					..
					CLSW				30				10
					MODO			..					.
					RWSW							..	
					COMO								.
					WEKI							.	
					BHCO								.
Riv 10	7-2-08	0613	20	0, 0	WEKI			.					.
					WUDO			..					.
					BLGR			.					
					BHCO			.					
					VERD			.					
					CLSW				..				10
					COYE			.					
					ABTO							.	
River 1	7-2-08	0628	22	0, 0	WUDO			..	..		
					BLGR		.						
					ATFL			.					

1a East Wetlands Avian Data Collection Sheet

Site: YEW

Observer(s): L. Priest

Sheet 3 of 6

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0- 2 minutes				2-5 minutes			
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover
RIV 1 (cont.)					MODO			.			.		
					COYE	.							
					RWBB							1	
					VERD						..		
					GTGR							..	
RIV 2	7-2-08	0638	23	0,0	MODO			.				..	
					ATFL			.					
					WUDO			.			..		
					RWBB			..				35	
					BLGR			..					
RIV 4	7-2-08	0448	24	0,1	GAQU			.			.		
					BLGR			.					
					KILL			.					
					RWBB				1		..		
					BHCO				.		.		
RIV 3	7-2-08	0700	25	0,0	ATEL			.			.		
					VERD			.			.		
					BHCO			.			.		
					WUDO			.			.		
					MODO			.			.		
Wet RR	7-2-08	0728	29	0,0	COYE			.			.		
					SPSA			.			.		
					WEKI			.			.		
					KILL			.			.		
					GTGR			.			.		
Wet	7-2-08	0728	29	0,0	ABTO			.			.		
					BLGR			.			.		
					GTGR		U	..			.		
Wet	7-2-08	0728	29	0,0	MODO		U	..			.	..
					ABTO			.			.		

Yuma East Wetlands Avian Data Collection Sheet

Site: YEW

Observer(s): L. Diest

Sheet 4 of 6

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes				2-5 minutes			
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover
RR1 (cont)					WEKI		.					..	
					BHCO			.					
					VERD					.	←.		
					WWDO					.			
					SNEG								.
RR4	7-2-08	0744	32	0,0	GTGR			..					
					WWDO				.				
					VERD			.					
					WEKI								.
					HOFI								..
RR3	7-2-08	0753	33	0,0	GTGR				..				
					MODD			.	..			☒	☒.
					WWDO		..	.				.
					BHCO							.	
					UNBB*								
					ABTD							.	
RR9	7-2-08	0802	33	5,0	VERD		.						
					MODD		Li		..				..
					BHCO			.					
					GTGR	..	□						
					WWDO			.					
					BLGR			.					
					ABTD			.				.	
					WEKI							.	
RR11	7-2-08	0816	34	5,2	MODD		Li					35,10	..
					WWDO			.	..				
					BNST							.	
					RWBB							.	
RR10	7-2-08	0831	35	5,3	ABTD			..					
					COYE			.					

UNBB = unidentified blackbird

Yuma East Wetlands Avian Data Collection Sheet

Site: YEW

Observer (s): L. Prest.

Sheet 5 of 6

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0- 2 minutes				2-5 minutes			
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover
RR10 (cont.)					VERD		• ← •						
					WWDO			•			•		
					MODG			•					
					WEKI						•		
					RWBB								••
					UNBB								••
TESE4	7-2-08	0840	37	5, 3	WWDO			•					•
					MODG		•		•			•	•
					WEKI			•					
					LBWO			•					
					VERD							•	
					ABTO							•	
					KILL							•	
TARA4	7-2-08	0848	37	5, 2	MODG			••			••	••	•
					VERD		•				•		
					BHCO							• ← •	
					WEKI							•	
					RWBB						••		
					WWDO							•	•
TESE3	7-2-08	0854	38	5, 5	MODG		•	••		••	••		•
					WWDO				•				•
					ABTO			•					
					RWBB				•				
					WEKI				•				
					VERD								••
					BHCO								•
TESE1	7-2-08	0905	38	5, 4	MODG		•						•
					WWDO			•	•				•
					GTGR				•				
					VERD			•					

Yuma East Wetlands Avian Data Collection Sheet

Site: YEW

Observer (s): L. Priest

Sheet 1 of 6

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0- 2 minutes				2-5 minutes				
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover	
Wet 5 = WC2	7-3-08	0457	29	5, 12	ABTO COYE RWBB YHBB BLGR			..						
TESEL	7-3-08	0508	29	3, 10	BLGR COYE ABTO MODO WEKI RWBB BHCO WWDO		.	..						
RIPIA = RC3	7-3-08	0515	29	0, 8	BLGR MODO WEKI COYE CLSW ABTO WWDO LENI			..						
Riv 5 = WC5	7-3-08	0530	29	0, 5	WWDO ABTO CLSW WEKI MODO COYE RWBB LBWO			..						
TESES	7-3-08	0539	29	0, 5	ABTO			..						

Yuma East Wetlands Avian Data Collection Sheet

Site: YEW

Observer(s): L. Priest

Sheet 2 of 6

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0- 2 minutes				2-5 minutes			
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover
TESES (cont.)					ATEL			.					
					VERD			.					
					WFIB								6
					MODO								.
					BHCO								.
					RWBB								
PIL3 = RR5	7-3-08	0551	29	0,7	COYE			.					
					WWDO			.					
					BLGR			.					
					CLSW								1
					COYE			.					
					WWDO								.
					YABB								.
					RWBB								.
					GREG								.
					GTGR								.
PIL2 = RR6	7-3-08	0600	29	0,6	YBCU!	.			(called, then flew to n.w.)				
					BLGR			.					
					MODO								.
					UNSW*								.
					WWDO								.
					GTGR								.
					ABTO								.
					RWBB								.
					BLGR								.
					GRHE								.
PIL1 = RR2	7-3-08	0609	29	0,4	COYE		.	.					
					BHCO			.					
					VERD		.	.					
					ROPI								35

* UNIDENT. SWALLOW

Yuma East Wetlands Avian Data Collection Sheet

Site: YEW

Observer (s): L. Priest

Sheet 5 of 6

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0- 2 minutes				2-5 minutes			
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover
WET2	(cont.)				BLGR WWDO							.	..
ARDO4	7-3-08	0745	33	0, 7	WWDO RWBB BNST			.	.				.
WET3	7-3-08	0752	34	5, 6	BNST BLGR WWDO BHCO	1:	.					.	.
ARDO3	7-3-08	0759	34	5, 8	VERD MODO BNST WWDO ROPI			.	→	.			.
ARDO5	7-3-08	0808	34	5, 10	WEKI GBHE SNEG WEKI KILL MODO WFIB BNST GREG BCNH			.	.			.	.
ARDO1	7-3-08	0815	34	5, 10	vis. dent. sandpipers SNEG KILL BNST			.	1:			.	.
TARA6	7-3-08	0822	34	5, 10	WEKI MODO			.				.	.

Research AWP Avian Data Collection Sheet

Site: YLVW

Observer(s): L. Priest

Sheet 1 of 4

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC, Wind Speed)	SPECIES	0-2 minutes			2-5 minutes				
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover
RRMAT1 7-23-08 YLVW	0518	23	0,0		ABTO								
					NOMO	..							
					MODO	..	..				
					WWD0	..	..				
RRMAT2	0527	23	0,0		CRTH								
					NOMO	..							
					ABTO	..							
					MODO	..							
RRMAT3	0536	22	0,0		CRTH	..							
					ABTO	..							
					GIW0	..							
					GAGU	..							
RRMAT4	0544	21	0,0		ECDDO								
					CLSW								
					VERD								
					GT6R								
RRMAT5	0553	21	0,0		LBW0								
					VERD	..							
					ABTO	..							
					WWD0	..							
RRMAT6	0553	21	0,0		ECDDO								
					GT6R								
					GIW0								
					BCHU ^{SI} ANHW	..							
RRMAT7	0553	21	0,0		MODO								
					NOMO								
					ECDDO								
					VERD	..							
RRMAT8	0553	21	0,0		MODO								
					COYE								
					VERD	..							
					ABTO	..							

Yuma East Wetlands Avian Data Collection Sheet

Site: Bill Williams Riparian

Observer (s): L. Priest

Sheet 1 of 5

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC, Wind Speed)	SPECIES	0-2 minutes			2-5 minutes				
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover
REFR1	7-26-88	0524	80	27	20,0	YBCH	.	.	.				
						BCFL	.	.	.				
						WWDO	.	.	.				
						ABTO	.	.	.				
						MODO	.	.	.				
						CNWR = canyon wren	.	.	.				
						BLGR	.	.	.				
						GAQU	.	.	.				
						LBWO	.	.	.				
						COYE	.	.	.				
REFR2	11	0538	26	30,0	SUTA	.	.	.					
					WWDO	.	.	.					
					MODO	.	.	.					
					YBCH	.	.	.					
					VERD	.	.	.					
					GAQU	.	.	.					
					YAWA	.	.	.					
					GIWO	.	.	.					
					CNWR	.	.	.					
					BLGR	.	.	.					
REFR3	11	0552	78	26	20,0	MODO	.	.	.				
						YBCH	.	.	.				
						SUTA	.	.	.				
						WWDO	.	.	.				
						BLGR	.	.	.				
						VERD	.	.	.				
						GAQU	.	.	.				
						BCFL	.	.	.				
						LBWO	.	.	.				
						LEN1	.	.	.				

Yuma East Wetlands Avian Data Collection Sheet

Site: Bill Williams Wetland

Observer (s): L. Priest

Sheet 1 of 4

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes			2-5 minutes			
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover
RW12	7-25-88	0518	78=24	10, 0	PBGR	..	'					
					WEGR	..	'					
					COYE	..	'					
					LEBI	..	'					
					BLPH	..	'					
REW11	"	0531	76=24	10, 1	AMCO	..	'					
					GBHE	..	'					
					SOSP	..	'					
					COYE	..	'					
					WEGR	..	'					
REW10	"	0541	75=24	5, 1	AMCO	..	'					
					CLSW	..	'					
					ABTO	..	'					
					COYE	..	'					
					LEBI	..	'					
REW1	"	0550	75=24	5, 2	RWBB	..	'					
					WEGR	..	'					
					GTGR	..	'					
					GRHE	..	'					
					BCNH	..	'					
REW2	"	0558	75=24	5, 0	COYE	..	'					
					GRHE	..	'					
					WEGR	..	'					
					CLSW	..	'					
					WWDO	..	'					
REW1	"	0558	75=24	5, 0	ABTO	..	'					
					COYE	..	'					
					WEGR	..	'					
					YBCH	..	'					
					LBWD	..	'					

Yuma East Wetlands Avian Data Collection Sheet

Site: YEW

Observer (s): L. Piest

Sheet 1 of 5

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes			2-5 minutes					
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover	
RRW7	9-21-08	0604	67=19	0,0	MODO Unid. warbler		.							
RRW8	"	0613	67=19	0,0	ABTO NOMO VERB COYE			.				.		
RESW1	"	0627	68=20	0,0	MODO RWBB AMCO MAWR MODO GTGR COYE KILL		.				.		.	.
RESW6	"	0636	20	0,0	MAWR LEBI YHBB VERB KILL GREG MDDO GRYE COYE		.				.	15		.
RESW2	"	0646	20	0,0	MAWR RWBB SOSP MODO GRYE LDSH BLPH VERB		.				.	15		.

Yuma East Wetlands Avian Data Collection Sheet

Site: YEW

Observer (s): L. Priest

Sheet 2 of 5

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC, Wind Speed)	SPECIES	0-2 minutes			2-5 minutes					
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover	
RESWE2 (cont.)					GREG									
RWE11	9-21-08	0702	70=21	0,0	RWBB MODO		<input type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		
RWE10	"	0702	21	0,0	YHBB KILL SPSA									
					unident. yellowlegs MODO									
					unident. Sandpiper RWBB									
RESWE9	"	0719	22	0,0	GTER COYE KILL MODO									
AG34	"	0728	22=22	0,1	KILL YHBB RWBB MODO									
AG24	"	0736	22	0,0	ALPA unident. warbler MODO									
					VERP ABTO COYE COYE VERD									
AG1	"	0744	23	0,0	MODO RWBB									
RESWE17	"	0805	23	0,0	unident. warbler MODO									

(3)

Yuma East Wetlands Avian Data Collection Sheet

Site: YEW

Observer (s): L. Priest

Sheet 3 of 6

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes			2-5 minutes					
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover	
RR1M12	(cont.)				KILL VERD									
RESWES	11-12-08	0815	51=10	0, 1	ABTO MAWR AMCO BTGN HOFI OSPR VERD YRWA LOSH MODO SOSP BLPH LBWO HOFI YRWA MODO MAWR VERD SOSP MODO BLPH YRWA VERFLY SAVSPA WCSP BNST	.	.	.						
RR1M11	"	0821	52=11	0, 1	HOFI YRWA MODO MAWR VERD SOSP MODO BLPH YRWA VERFLY SAVSPA WCSP BNST	.	.	.						
RESWES	"	0832	53=12	0, 1	HOFI YRWA MODO MAWR VERD SOSP MODO BLPH YRWA VERFLY SAVSPA WCSP BNST	.	.	.						
RESWET	"	0844	54=12	0, 0	MAWR BLPH	.	.	.						

Yuma East Wetlands Avian Data Collection Sheet

Site: YEW

Observer (s): L. Priest

Sheet 2 of 4

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes			2-5 minutes					
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover	
RRIM5Y (cont.)					VERD									
RRIM6	11-8-08	0855	60=16	0,0	HOEI YRWA VERD ABTO BTGN BEKI GTGR GAQU AGTO YRWA ROPI BLPH BRWNA MAWR PBER AMCO COYE VERD GTGR COYE HOEI ABTO YRWA BTGN VERD GIWO OCWA VEAD HOEI BTGN	•••	•		•	•••				
RRIM2	"	0903	62=17	0,1		•	••	70		••				
RRIM7	"	0927	65=18	0,0		••	•		••	•	•	•	•	•
RRIM8	"	0934	66=19	0,0		•	•		••	•	•	•	•	•

Yuma East Wetlands Avian Data Collection Sheet

Site: YEW

Observer (s): L. Priest

Sheet 4 of 6

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes			2-5 minutes						
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover		
COVESY (cont.)					COYE unid. warbler										
COWE8	11-7-08	0835	65=18	0,4	HOFI VERD YRWA NORAR RCKI OSPR LBWO BTGN unid. flicker MODO COYE RCKI AMCO ABTO MAWR YRWA MALL AGWTeal HOEI RWBB YRWA AMCO COYE										
CORE4Y	"	0843	67=19	0,5	DCCO AMCO GARU VERD YRWA HOEI										
COWE6Y	"	0849	68=20	0,5											
COWE4Y	"	0858	68=20	0,10											

Too WINDY

Yuma East Wetlands Avian Data Collection Sheet

Site: Upper Bill Williams

Observer (s): L. Priest

Sheet 1 of 2

Point Name & Number	Date	Time	Air Temp. (°C)	Weather (% CC; Wind Speed)	SPECIES	0-2 minutes			2-5 minutes							
						0-20m	20-50m	>50m	Flyover	0-20m	20-50m	>50m	Flyover			
REFR1	11-10-08	0632	38	3 0, 0	GHOW AMCO ABTO CNWren CRTH ABTO HOWren YRWA RCKI SAPH RCKI YRWA SOSP			°								
REFR2	"	0644	3	0, 0			°	°	°							
REFR3	"	0659	3	0, 0			°	°	°							
REFR4	"	0710	3	0, 1			°	°	°							
REFR5	"	0720	38	3 0, 0	ABTO RCKI ABTO OCWA SOSP SAPH WCSP HOWRE RCKI BT6N SOSP CANWRE BLPH ABTO BT6N RCKI			°	°	°	°	°	°	°	°	°
REFR6	"	0729	4	0, 1			°	°	°							
REFR7	"	0739	5	0, 1			°	°	°							

Appendix G. Mammal Datasheets

Q000

Research AWP Mammalian Data Collection Sheet

Site: BANWR Habitat Type and Number: Ref Wet 15 Date: 4/11/08 Observer(s): H. Koppal, M. Winterford

Small Mammal Trap Site Information

Small Mammal Trap Site Information
Set Date: 4/11/08 Set Time: 1654 Set Temp. (C): 30 Set Weather (% CC, Wind Speed): 100% 0
Retrieval Date: 4/12/08 Retrieval Time: 809 Retrieval Temp. (C): 25 Retrieval Weather (% CC, Wind Speed): 100% 0

Small Mammal Trap Collection Information

Trap Number	SPECIES	Sex (M/F)	Bag Weight (g)	Mammal Weight (g)	Head & Body Length (mm)	Tail Length (mm)	Hind Foot Length (mm)	Repro. (Y/N)	Age Class (A, J)	Comments
1										
2	<u>Peromyscus</u>	<u>F</u>	<u>29.5-25</u>	<u>19.0</u>	<u>37</u>	<u>83</u>	<u>17</u>	<u>N</u>	<u>A</u>	
3										
4										
5										
6										
7										
8										
9										
10										
11										
12	<u>C. perisulcatus</u>	<u>M</u>	<u>37.5-15</u>	<u>23.0</u>	<u>86</u>	<u>113</u>	<u>23</u>	<u>N</u>	<u>A</u>	
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										

Mammalian Observational, Acoustic and Sign Detections

Date	Species	Detection Type	Comments	Date	Species	Detection Type	Comments
<u>4/11/08</u>	<u>Desert Cottontail</u>	<u>Tracks</u>	<u>Edge of Wetland</u>				
<u>4/11/08</u>	<u>Trackmark</u>	<u>Tracks</u>	<u>"</u>				
<u>4/11/08</u>	<u>Song</u>	<u>Tracks</u>	<u>"</u>				
<u>4/11/08</u>	<u>Raccoon</u>	<u>Tracks</u>	<u>"</u>				
<u>4/11/08</u>	<u>Woodrat</u>	<u>Tracks</u>	<u>"</u>				

Research AWPf Mammalian Data Collection Sheet

DOUG

Site: Bloomer Habitat Type and Number: Ref Rip 4 Date: 4/10/08 Observer(s): M. Winters and J. K. Harper

Small Mammal Trap Site Information

Set Date: 4/10/08 Set Time: 1758 Set Temp. (C): 28 Set Weather (% CC, Wind Speed): 10 km/h, 02 CC
 Retrieval Date: 4/11/08 Retrieval Time: 809 Retrieval Temp. (C): 17 Retrieval Weather (% CC, Wind Speed): 0 wind, 0 CC

Small Mammal Trap Collection Information

Trap Number	SPECIES	Sex (M/F)	Bag Weight (g)	Mammal Weight (g)	Head & Body Length (mm)	Tail Length (mm)	Hind Foot Length (mm)	Repro. (Y/N)	Age Class (A, J)	Comments
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										

NO MAMMALS

Mammalian Observational, Acoustic and Sign Detections

Date	Species	Detection Type	Comments	Date	Species	Detection Type	Comments
4/11/08	Great Horned Owl	Tracks					
	Scrub Jay	Tracks					
	Howler	Tracks					
	Coati	Tracks					
	Gray Fox	Track + sign					
	Tack rabbit	Tracks					
	Raccoon	Tracks					
	Bobcat	Tracks					

Research AWPf Mammalian Data Collection Sheet

Done

Site: Brewster Habitat Type and Number: Ret Rip 6 Date: 4/10/08 Observer (s): M. Winkler, H. Krepper

Small Mammal Trap Site Information

Set Date: 4/10/08 Set Time: 8:19 Set Temp. (C): 23 Set Weather (% CC, Wind Speed): Sunny, 0% CC
 Retrieval Date: 4/11/08 Retrieval Time: 8:32 Retrieval Temp. (C): 19 Retrieval Weather (% CC, Wind Speed): Cloudy, 0% CC

Small Mammal Trap Collection Information

Trap Number	SPECIES	Sex (M/F)	Bag Weight (g)	Mammal Weight (g)	Head & Body Length (mm)	Tail Length (mm)	Hind Foot Length (mm)	Repro. (Y/N)	Age Class (A, J)	Comments
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										

Mammalian Observational, Acoustic and Sign Detections

Date	Species	Detection Type	Comments	Date	Species	Detection Type	Comments
<u>4/10/08</u>	<u>COYOTE</u>	<u>TRACK</u>					
	<u>DEER (COTTONTAIL?)</u>	<u>TRACK</u>					
	<u>WOLF</u>	<u>TRACK</u>					
	<u>BOBCAT</u>	<u>TRACK</u>					
	<u>WILD CAT</u>	<u>TRACK</u>					
	<u>OTTER</u>	<u>TRACK</u>					

Research AWP Mammalian Data Collection Sheet

DDNF

Site: YELU Habitat Type and Number: Rest wet 4 Date: 9/2/08 Observer (s): H. K. Leppard, M. W. Henderson
 Small Mammal Trap Site Information
 Set Date: 4/7/08 Set Time: 1823 Set Temp. (C): 29 Set Weather (% CC, Wind Speed): Sunny, 08C
 Retrieval Date: 4/8/08 Retrieval Time: 1807 Retrieval Temp. (C): 21 Retrieval Weather (% CC, Wind Speed): Light, 19C

Small Mammal Trap Collection Information

Trap Number	SPECIES	Sex (M/F)	Bag Weight (g)	Mammal Weight (g)	Head & Body Length (mm)	Tail Length (mm)	Hind Foot Length (mm)	Repro. (Y/N)	Age Class (A, J)	Comments
1										
2	Peromyscus leucopus									
3	Peromyscus leucopus									
4	Peromyscus leucopus									
5										
6										
7										
8	<i>P. maniculatus</i>	M	39.1	23	95	75	17	N	A	
9										
10										
11										
12										
13										
14										
15										
16										
17	<i>M. musculus</i>									
18	<i>M. musculus</i>	M	31.5	20.5	85	75	20	N	A	
19										
20										
21										
22										
23	<i>P. maniculatus</i>									
24	<i>P. maniculatus</i>	F	29.05	18.5	90	74	17	N	A	
25	<i>P. maniculatus</i>									

28.0
10.5
18.5

Mammalian Observational, Acoustic and Sign Detections

Date	Species	Detection Type	Comments	Date	Species	Detection Type	Comments
4/7/08	coyote	tracks					
4/8/08	coyote	tracks					
	bobcat	tracks					
	red fox	tracks					
	white deer?	tracks	leopard print.				
	leopard	tracks					

Research AWPf Mammalian Data Collection Sheet

Site: New Habitat Type and Number: Res Rip 1 Date: 5/18/08 Observer(s): Wen

Small Mammal Trap Site Information

Set Date: 5/18/08 Set Time: 6:15 Set Temp. (C): 32.0 Set Weather (% CC, Wind Speed): 10% 0
 Retrieval Date: 5/14/08 Retrieval Time: 6:35 Retrieval Temp. (C): 20.3 Retrieval Weather (% CC, Wind Speed): 0% 0

52

Small Mammal Trap Collection Information

Trap Number	SPECIES	Sex (M/F)	Bag Weight (g)	Mammal Weight (g)	Head & Body Length (mm)	Tail Length (mm)	Hind Foot Length (mm)	Repro. (Y/N)	Age Class (A, J)	Comments
1										
2	<u>P. maniculatus</u>	<u>M</u>	<u>35-11</u>	<u>24</u>	<u>92</u>	<u>88</u>	<u>22</u>	<u>N</u>	<u>A</u>	
3										
4										
5										
6										
7										
8	<u>P. maniculatus</u>	<u>F</u>	<u>34-11</u>	<u>23</u>	<u>87</u>	<u>80</u>	<u>20</u>	<u>N</u>	<u>A</u>	
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										

Mammalian Observational, Acoustic and Sign Detections

Date	Species	Detection Type	Comments	Date	Species	Detection Type	Comments
<u>5/14/08</u>	<u>coyote</u>	<u>Track/Scat</u>					
<u>5/14/08</u>	<u>bobcat</u>	<u>Track</u>					
<u>5/14/08</u>	<u>bobcat</u>	<u>Track</u>					
<u>5/14/08</u>	<u>coyote</u>	<u>Track</u>					
<u>5/14/08</u>	<u>bobcat</u>	<u>Track</u>					

Research AWPf Mammalian Data Collection Sheet

Site: Wald Habitat Type and Number: Red Rip 2 Date: 10/20/08 Observer(s): WV CC

Small Mammal Trap Site Information

Set date: 10/20/08 Set Time: 1653 Set Temp. (C): 29° Set Weather (% CC, Wind Speed): 0, 1.2 mph
 Retrieval Date: 10/21/08 Retrieval Time: 720 Retrieval Temp. (C): 17° Retrieval Weather (% CC, Wind Speed): 0, 0

Small Mammal Trap Collection Information

Trap Number	SPECIES	Sex (M/F)	Bag Weight (g)	Mammal Weight (g)	Head & Body Length (mm)	Tail Length (mm)	Hind Foot Length (mm)	Repro. (Y/N)	Age Class (A, J)	Comments
1	Peromyscus	M	265-18	135	73	75	18	N	D	
2	Peromyscus	M	425-16	30	92	97	18	N	A	
3	Peromyscus	M	30-12	18	85	87	18	N	A	
4	Peromyscus	M	35-12	21	92	100	19	N	A	
5	Peromyscus	M	35-14	21.5	92	79	18	N	A	
6	Peromyscus	M	35-14	21.5	92	79	18	N	A	
7	Peromyscus	M	35-14	21.5	92	79	18	N	A	
8	Peromyscus	M	35-14	21.5	92	79	18	N	A	
9	Peromyscus	M	35-14	21.5	92	79	18	N	A	
10	Peromyscus	M	32-13	19.5	88	94	17	N	A	
11	Peromyscus	M	32-13	19.5	88	94	17	N	A	
12	Peromyscus	M	32-13	19.5	88	94	17	N	A	
13	Peromyscus	M	32-13	19.5	88	94	17	N	A	
14	Peromyscus	M	32-13	19.5	88	94	17	N	A	
15	Peromyscus	M	32-13	19.5	88	94	17	N	A	
16	Peromyscus	M	32-13	19.5	88	94	17	N	A	
17	Peromyscus	M	32-13	19.5	88	94	17	N	A	
18	Peromyscus	M	32-13	19.5	88	94	17	N	A	
19	Peromyscus	M	32-13	19.5	88	94	17	N	A	
20	Peromyscus	M	32-13	19.5	88	94	17	N	A	
21	Peromyscus	M	32-13	19.5	88	94	17	N	A	
22	Peromyscus	M	32-13	19.5	88	94	17	N	A	
23	Peromyscus	M	32-13	19.5	88	94	17	N	A	
24	Peromyscus	M	32-13	19.5	88	94	17	N	A	
25	Peromyscus	M	32-13	19.5	88	94	17	N	A	

Mammalian Observational, Acoustic and Sign Detections

Date	Species	Detection Type	Comments	Date	Species	Detection Type	Comments
10/20/08	Cottontail	Track/Scat					
10/20/08	Bobcat	Track					
10/20/08	Bobcat	Track					
10/20/08	Recoona	Track					

Research AWP/Mammalian Data Collection Sheet

Site: Pv MWR Habitat Type and Number: Roecut 2 Date: 11/17/08 Observer(s): ma & GC

Small Mammal Trap Site Information

Set Date: 11/17/08 Set Time: 1630 Set Temp. (C): 29° Set Weather (% CC, Wind Speed): 0/0
 Retrieval Date: 11/19/08 Retrieval Time: 112 Retrieval Temp. (C): 22.8 Retrieval Weather (% CC, Wind Speed): 0/0

Small Mammal Trap Collection Information

Trap Number	SPECIES	Sex (M/F)	Bag Weight (g)	Mammal Weight (g)	Head & Body Length (mm)	Tail Length (mm)	Hind Foot Length (mm)	Repro. (Y/N)	Age Class (A, J)	Comments
1										
2	<i>P. maniculatus</i>	M	23.5-11.5	12	74	76	18	N	J	
3										
4	<i>P. eremicus</i>	M	32-11.5	20.5	84	102	18	N	A	
5										
6	<i>M. musculus</i>	F	24.5-11.5	13	70	82 75	18	N	J	
7										
8										
9										
10	<i>P. maniculatus</i>	M	21.5-11.5	10	90	72	18	N	J	
11										
12	<i>P. maniculatus</i>	F	21.5-11.5	8.5	66	66	19	N	J	
13										
14										
15										
16										
17	<i>P. eremicus</i>	M	31-12	19	85	98	21	Y	A	
18	<i>P. maniculatus</i>	M	31-11.5	19.5	94	94	19	Y	A	
19	<i>P. maniculatus</i>	M	32.5-11.5	21	94	95	19	N	A	
20										
21	<i>P. maniculatus</i>	M	31.5-11.5	20	95	100	20	N	A	
22	<i>P. eremicus</i>	M	31-12	19	89	95	20	N	A	
23										
24	<i>P. eremicus</i>	F	32-11.5	20.7	85	102 108	19	N	A	

Mammalian Observational, Acoustic and Sign Detections

Date	Species	Detection Type	Comments	Set	Sex	Weight	Hind Foot	Tail	Coat	Repro	Age
11/17/08	<i>P. maniculatus</i>	PIT Trap	Carpenter trap	F	28-11	17	89	90	19	N	A
11/18/08	<i>P. eremicus</i>	PIT Trap	1'	M	32-11.5	20.5	87	101	18	N	A
11/18/08	<i>P. eremicus</i>	PIT Trap	Combed by the mouse above								
11/18/08	<i>P. eremicus</i>	Track									
11/18/08	<i>P. eremicus</i>	Track									
11/18/08	<i>P. eremicus</i>	Track									
11/18/08	<i>P. eremicus</i>	Track									

3-2

Appendix H. Herpetofauna Datasheets

WCH 17 MAY 6:45 Research AWP Herpetofaunal Sampling Pitfall Array Data Sheet
 NADA (CARP/MARK)

SITE & REPL	DATE '08	TIME	OBSV.	SPECIES	SEX	AGE CLASS	REPROD. COND.	SVL (mm)	TOT-L (mm)	Tail-break (mm)	MASS (g)	ID# (mark)	RECAP?	NOTES
WC2	18 MAY	6:30	CARP	UTST	♀	A	-	45	130	-	2.0	0102	H	emaciated
RC2	"	7:00	"	UTST	♂	A	T	53	145	-	4.0	0103	H	
RC4	"	7:25	"	UTST	♀	A	Foul	47	133	-	3.6	0104	H	plump
RC4	"	"	"	UTST	♀	A	Foul	49	110	54	3.9	0105	H	
RC4	"	"	"	UTST	♀	SA	-	42	122	-	2.8	0110	H	
WC3	"	7:40	"	NADA										
RR2	"	7:50	"	NADA										
RR5	"	11:20	CARP	LAGS										
"	"	"	CARP	LAGS										
"	"	"	CARP	LAGS										
RM3	"	11:30	CARP	NADA	♀	A	-							
RM6	"	11:30	CARP	AST	♀	A	-	75	256	-	4.6	0050	H	
"	"	11:30	CARP	UTST	♂	A	T	48	141	-	3.8	0111	H	bug
AG5	18 MAY	11:00	CARP	NADA										
AG2	"	11:00	"	"										
AP4	"	11:00	"	"										
RC5	18 MAY	11:15	CARP	SCMA										
RM4	"	11:20	"	NADA										
RR1	"	11:25	"	NADA										
RR3	"	1:05	"	AST	♀	A	-	71	258	-	10	0057		
"	"	"	"	AST	♂	A	-	75	270	-	11	0052		
RN2	"	1:25	"	AST										
RM1	"	1:35	"	NADA										
WC2	19 MAY	6:15	CARP	NADA										
RC2	19 MAY	6:30	CARP	LAGS	♀	A	F	56	160		4.0			
RC4				NADA										
WC3				NADA										
RR2		7:00		NADA										

NUMBER OF WORMS IN SUN

DIT (102P)
- gettable back

508

105°F

108°F

109°F

1" AC = 110°F

h

HARP SACK

DIT - funnel

3 x UTST ♀ (CARP) are rec'd 0001
 + healthy plump

Research AWPf Herpetofaunal Sampling Pitfall Array Data Sheet

SITE & REPL	DATE	TIME	OBSV.	SPECIES	SEX	AGE CLASS	REPROD. COND.	SVL (mm)	TOT-L (mm)	tail-break (mm)	MASS (g)	ID# (mark)	RECAP?	NOTES
RR2	16 MAY 08	12:15	CARP	ASTI	♂	A	—	90	187	147	13	0004	Y	
				ASTI	♂	A	—	75	203	—	13	0050	N	
				ASTI	♂	SA	—	64	204	—	5	—	N	cheek
				URGR	♂	A	TEST	53	126	116	3.9	0002	N	
	17 MAY 08	8:00		RACA-SACKING										
RMRS	"	8:10	CARP	NADA										
RMRS	17 MAY	8:20	CARP	UTST	♀	AD	—	58	147	119	4.7	0005	Y	
"	"	8:25	CARP	URGR	♂	AD	—	44	113	—	1.8	0003	N	
"	"	"	"	UTST	♀	ADSA	—	—	—	—	—	0051	N	
RMRS	17 MAY	8:45	"	NADA										
WC2	17 MAY	9:45	CARP	ASTI	♀	AD	FOU	83	303	—	14	0044	N	
"	"	"	"	UTST	♂	AD	—	15	180	95	2.4	0052	N	6% 1H Exposure
"	"	"	"	UTST	♀	AD	—	49	111	61	—	0053	N	
PC2	"	10:15	"	NADA										
PC4	"	10:30	"	NADA										
NCS	"	10:40	CARP	URGR	♀	A	GRAY	55	180	—	4.6	0004	N	
"	"	"	"	UTST	♀	A	—	42	123	—	2.4	0055	N	
RR2	17 MAY 08	11:00	CARP	URGR	♀	A	LG FOU	50	130	—	3.2	0005	N	
"	"	"	"	ASTI	♀	A-3?	FOL	58	229	—	9	0045	N	
AG5	17 MAY 08	11:20	"	NADA										
AG2	"	11:55	"	NADA										
AG1	"	11:40	"	NADA										
RC5	17 MAY 08	11:55	CARP	UTST	♀	A	FOU	48	114	65	2.3	0100	N	
"	"	"	"	UTST	♂	A	TEST	48	130	—	—	0101	N	
RW4	17 MAY	12:05	CARP	NADA										
RR1	17 MAY	12:20	"	NADA										
RR3	17 MAY	12:35	CARP	NADA										
RW1	17 MAY	12:50	CARP	NADA										
RW2	"	1:05	"	NADA										

ARR 6
5
3

(105° F @ 1:15 → 106° @ 1:21)
(101° F @ 12:30 → AB)

244

100

7 Buses (Penny's solution)

Buses

Clash

Buses (trucks)
Buses (trucks)

Research AWP Herpetofaunal Sampling Pitfall Array Data Sheet



SITE & REPL	DATE	TIME	OBSV.	SPECIES	SEX	AGE CLASS	REPROD. COND.	SVL (mm)	TOT-L (mm)	tail-break (mm)	MASS (g)	ID# (mark)	RECAP?	NOTES
RR2	5/14/08	4:30 PM	CARP	ASTI	♂	SA	—	54	193	—	3.2	0032	ND	
RW4	" "	5:30 PM	CUD	ASTI	♀	SA	—	67	235	—	6.2	0033	ND	
" "	" "	" "	" "	ASTI	♂	SA	—	76	257	—	7.0	0034	ND	
RR3	" "	5:50 PM	" "	ASTI	♂	SA	—	68	258	—	7.2	0035	ND	
" "	" "	6:00 PM	" "	ASTI	♀	Ad	—	72	260	—	8.0	0040	ND	
RC5	5/15	9:10 AM	CARP	UTST	♀	SA	—	46	111	—	2.5	0050	ND	
" "	5/15/08	" "	" "	ASTI	♀	Ad	—	85	144	134	18	0041	ND	
RC2	" "	10:30 AM	" "	UTST	♀	Ad	—	82	244	234	17	0042	ND	
RCH	" "	11:00 AM	" "	ASTI	♀	Ad	Foll	79	183	148	1.6	0003	Yes	
" "	" "	" "	" "	ASTI	♂	Ad	—	72	248	157	14	0043	ND	* centipede
" "	" "	" "	" "	URDR	♂	Ad	—	50	135	—	3.4	0002	ND	Yellow green moat
" "	" "	" "	" "	UTST	♀	Ad	Ovid	50	131	—	3.6	0014	Yes	
" "	" "	" "	" "	UTST	♀	Ad	—	62	145	—	4.2	0004	Yes	
" "	" "	" "	" "	URGR	♂	Ad	—	55	75	75	4.0	0001	ND	
RMR3	5/15	12:30	" "	" "	" "	" "	" "	" "	" "	" "	" "	" "	" "	" "
AG1	16 MAY	7:30	CARP	NADA										
RW2	" "	8:30	CARP	NADA										
RW1	" "	9:45	CARP	NADA										
RW4	16 MAY	9:00	CARP	NADA										
RR1	16 MAY	9:15	CARP	NADA										
RR3	16 MAY	9:35	CARP	NADA										
RC5	" "	10:00	CARP	NADA										
RC2	16 MAY		CARP	UTST	♂	Ad	—	52	145	—	4.4	0004	Yes	
RC7	16 MAY	1:00	CARP	ASTI	♂	Ad	—	72	225	185	1.0	0057	ND	
RC2	16 MAY	1:35	CARP	URGR	♂	Bar	—	55	79	79	4.0	0001	ND	
RC9	" "	1:45	CARP	NADA										

ADD WEATHER (wind, temp)

URGR-UTST moat

3
5/15/08
9:00
9:00

[PARKER YUMA
BUNNICK MAY 08]

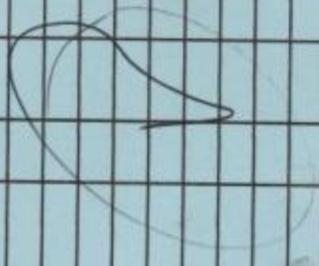
Research AWPf Herpetofaunal Sampling Pitfall Array Data Sheet

SITE & REPL	DATE	TIME	OBSV.	SPECIES	SEX	AGE CLASS	REPROD. COND.	SVL (mm)	TOT-L (mm)	tail-break (mm)	MASS (g)	ID# (mark)	RECAP?	NOTES
TW1A	12 MAY	1:00 P	CARP	ASTI	♀	AD	-	74	214	-	18	0013	N	DIT
"	"	"	"	ASTI	♂	AD	-	85	249	127	19	0014	N	DIT
TW1B	12 MAY	1:00 P	CARP	ASTI	♀	AD	-	74	309	-	18	0015	N	DIT - bucket in RECAP
"	"	"	"	BUND	♀	AD	-	74	260	-	14	0020	N	"stinky"
"	"	"	"	ASTI	♀	AD	-	65	250	-	18	0021	N	
"	"	"	"	ASTI	♀	AD	-	72	262	-	14	0022	N	
"	"	"	"	ASTI	?	AD	-							DIT
RW2	13 MAY	11:00 A	CARP	UTST	♀	AD	small	48	117	66	24	0042	N	
RW3	13 MAY	11:00 A	CARP	ASTI	♂	AD	best	95	317	-	24	0023	N	
RW5	13 MAY	11:00 A	CARP	ASTI	♀	AD	full	86	305	-	20	0024	N	
"	"	"	"	ASTI	♀	AD	-	80	160	115	14	0025	N	
"	"	"	"	ASTI	♀	AD	01	80	175	172	14	0030	N	
"	"	"	"	UTST	♀	AD	-	46	127	-	5.0	0043	N	marked probably in bucket for later - tail brittle
"	"	"	"	UTST	♀	AD	-	45	114	151	29g	0044	N	DIT
RR6	14 MAY	7:00 P	CARP	ASTI	?	JUV	-							
RR6	14 MAY	7:00 P	CARP	SCMA	♂	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♂	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	SCMA	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	SCMA	♂	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	SCMA	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	SCMA	♂	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	ASTI	♀	JUV	-							
RR6	14 MAY	7:00 P	CARP	UTST	♀	JUV								

Pitfall Array
Research AWP Herpetofaunal Sampling Data Sheet

SITE & REPL	DATE	TIME	OBS. BY	MI. or GPS	SPECIES	SEX	AGE CLASS	REPRODUCTIVE CONDITION	SVL Min	TOT-L In. M	tail-break (lizards) VA, BA	MASS g	ID# (mark)	RECAP?	NOTES
WC3	17 Aug	11:54	Comp & Clark		NONE	-	-	-	-	-	-	-	-	-	
RR2	17 Aug	12:10	" "		NONE	-	-	-	-	-	-	-	-	-	
RM3	"	3:00	Computer		ASTI	F	AD	Follicles	43	305	89	1.8	0022	NO	
"	"	"	"		UTST	F	AD	0	43	111		2.0	0034	NO	
"	"	"	"		ASTI	F	SA	-	55	156			0023	YES	DIT
RM5	17 Aug	3:15	" "		UTST	M	-	-	-	-	-	-	-	-	
RM6	"	3:25	" "		UTST	F	AD	-	47	127	NO	2.6	0035	NO	
"	"	"	"		UROR	M	AD	-	50	134	NO	3.2	0001	NO	
"	"	"	"		UTST	F	AD	-	42	65	63	1.8	0040	NO	2mm bird trail
"	"	"	"		UTST	M	AD	Test	52	135	117	4.2	0041	NO	Regeneration

all 3
M
Sand
bucket



Research AWP Herpetofaunal Sampling Pitfall Array Data Sheet

SITE & REPL	DATE	TIME	OBSV.	SPECIES	SEX	AGE CLASS	REPROD. COND.	SVL	TOT-L	tail-break (lizards)	MASS	ID# (mark)	RECAP?	NOTES
INC2	16 APR 08	9:18 AM	100	UTST	♀	AD	—	46	130	—	5.6	0024		in PHALICE TRAY
RC2	16 APR 08	9:25	100	UTST	♀	AD	—	47	140	125	2.6	0027		
RR2	"	9:43	"	UTST	♂	AD	—	81	143	—	5.0	0004		MISSING
RWR3	"	10:30	"	UTST	M	AD	TEST	40	145	—	4.4	0023		
"	"	"	"	ASTM	M	AD	TEST	83	285	NO	1.0	0005		
RWR5	"	10:14	"	UTST	♀	SA	—	51	177	NO	2.9	0010		Shedding
RWR6	"	10:50	"	UTST	M	AD	TEST	51	140	121	4.0	0024		NO
"	"	"	"	UTST	M	AD	TEST	51	140	121	4.0	0024		NO
RWH	16 APR 08	9:00	CARP	NADA										
RR1	"	4:10	"	NADA										
RR3	"	4:20	"	NADA										
AG5	"	6:00	CARP	NADA										
AG1	"	6:10	"	NADA										
AG2	"	6:15	"	NADA										
PCS	"	6:25	"	NADA										
AG5	17 APR 08	7:25 AM	100	UTST	♂	AD	TEST	48	135	—	3.8	0025		collected insects
AG7	"	7:38 AM	"	UTST	♂	AD	TEST	52	138	114	—	0030		*insects
AG1	"	7:55 AM	"	UTST	♂	AD	TEST	48	265	140	2.4	0011		
RC5	"	8:15 AM	"	UTST	♂	AD	OVID	48	134	NO	3.2	0031		
RWH	"	9:25	"	UTST	♂	AD	TEST	49	145	114	4.0	0032		
RR3	"	9:25	"	UTST	♂	AD	TEST	49	145	114	4.0	0032		
RR5	"	9:45	"	UTST	♂	AD	TEST	49	145	114	4.0	0032		
RW2	"	10:05	"	UTST	♂	AD	TEST	49	145	114	4.0	0032		
RW1	"	10:22	"	UTST	♂	AD	TEST	49	145	114	4.0	0032		
WC2	"	11:15	"	UTST	♂	AD	TEST	49	145	114	4.0	0032		
RC2	"	11:25 AM	"	UTST	♂	AD	TEST	49	145	114	4.0	0032		
"	"	"	"	ASTM	♂	AD	TEST	49	145	114	4.0	0032		
RC4	"	11:37	"	UTST	♂	AD	TEST	49	145	114	4.0	0032		
"	"	"	"	UTST	♂	AD	TEST	49	145	114	4.0	0032		
"	"	"	"	UTST	♀	AD	OVID	49	140	NO	4.0	0033		

LIZARD ESCAPED before mass measured.

collected insects

Research AWPf Herpetofaunal Sampling Pitfall Array Data Sheet

BURNETT DAMMIES
 CATTAILS
 ALL NEARBY
 BURNETT DAMMIES
 PLANET RANCH

check mark
 Spermator
 11/1/12
 2.4.5
 11/1/12
 WOLF SPIPER
 -73 CRANE FLIES

missing thumb
 & index finger
 scale flunky
 Fat 1/2 and

SITE & REPL	DATE	TIME	OBSV.	SPECIES	SEX	AGE CLASS	REPROD. COND.	SVL (mm)	TOT-L (mm)	tail-break (lizards)	MASS (g)	ID# (mark)	RECAP?	NOTES
(A) BW-T-1	12 APR 06	6:30 A	GCC	NADA										col - low 60s of road insect activity worming up
(B) BW-T	"	6:50 A	CARP	NADA										
(C) DWT	"	7:10	CARP	Ø										
PRC	"	11:41	CARP	SCMA	♀	JUV	NR	46	135	NO	2.8	0001	NO	PEFL in funnel IN FUNNEL TRAP
RR1	14 APR 06	7:40	↑	WEGC										
RR3	"	7:45	↑	WEGC										
RR2	"	8:00	CARP	UTST	♀	AD	NO EGG	46	135	NO	3.9	0001	NO	
RR2	13 APR 06	NR	CARP	ASTI	♀	AD		55	244			0001		
RC2	"	5:02		UTST	♀	AD	N	45	120	NO	2.8	0002		
RC2	"	JULY 18		UTST	♀	AD	N	47	122		3.8	0003		
RC2	"			UTST	♀	AD		43	130		2.8	0004		
RC2	"			UTST	♀	AD		45	56 (H)	56	2.6	0005		
RC2	"			UTST	♀	AD		47	97	54	2.6	0010		
RC2	"			UTST	♀	AD		46	120	A-91	2.8	0011		
RC2	"			UTST	♀	AD		74	117	64	3.0	0012		
RC2	"			UTST	♀	AD		74	117	64	3.0	0012		
RW4	15 April	3:45 PM	CARP	ASTI	M	AD		78	291	NO	18g	0002	NO	shedding
RR1	15 April	3:55 PM	CARP	UTST	M	AD		50	149	98	4.6	0013	NO	
RR3	"	"	"	ASTI	M	AD		49	130	89	3.6	001*	NO	FR. Front leg only 5 toes
RW1	"	4:01	"	Ø										
RW1	"	4:06	"	Ø										
RR4	"	4:25 PM	"	ASTI	F	AD	NO	78	250	185	18	0003	NO	
"	"	"	"	UTST	F	AD	ovid	51	120		4.6	0014	NO	OR OR Throat
"	"	"	"	UTST	M	AD	WEGC	55	128	100	5.0	0015	NO	
"	"	"	"	UTST	M	JUV	NO	36	90	NO	1.4	0020	NO	
"	"	"	"	UTST	M	AD	NO	82	225	135	19	0004	NO	
RC2	"	5:27	"	Ø										

Female laid one egg in

ALL IN SBUCKET

RR2

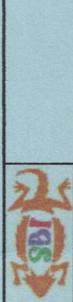
BWT (A) Rocky

(B) - Arrow w/ SD

(C) - Arrow w/ SD
suffer soil, later sun

Research AWP Herpetofaunal Sampling Pedestrian Survey Data Sheet

SITE & REPL	DATE	TIME-START	TIME-STOP	OBSV.	LOC.	DIST.	SPECIES	SEX	AGE CLASS	NOTES
(A) BW-Jule	12 APR 08	6:30	6:45	CARP						cool, early, insects active, sit in shade
(B) BW-T	" "	6:50	7:00	CARP						warming up, insect activity
(C) BW-T	" "	7:10	7:20	CARP	margin	50M	UTST	♂	AD	sun just hitting, cool pocket of air
PRA										* besking (pru), feeding (x3), displ (2) - open area, base of burnt trunk
PRP										
PRC	" "	" "								
INS										
RR3	17 April 08	9:46	10:56			20M	UTST	—	—	Turd found 20M off fence, trap
RME6	17 April	3:25P	3:35P	Star Head		♀	VTST	—	—	On array -



BWT (A) Rocky

(B) - Arrived w/ BGD

(C) - Arrived w/ BGD, later sun

Research AWP Herpetofaunal Sampling Pedestrian Survey Data Sheet

SITE & REPL	DATE	TIME-START	TIME-STOP	OBSV.	LOC.	DIST.	SPECIES	SEX	AGE CLASS	NOTES
(A) BWT-Jule	12 APR 08	6:30	6:35	CARP						cool, early, insects active, sit in shade
(B) BWT-T	" "	6:50	7:00	CARP						warming up, insect activity
(C) BWT-T	" "	7:10	7:20	CARP	mesq ¹	50M	UTSI	♂	AD	sun just hitting, cool pocket of air
PRA										displ (2) - open area, base of burnt tower
PRP										
PRC	" "	" "	" "							
WRN	17 APR 08	3:35	3:45	CARP						
RRS	17 April 08	9:46	10:56			20M	UTSI	—	—	trap found 20M off fence.
RNE6	17 April	3:25P	3:35P	CARP, Med		Ø	UTSI	—	—	on array.

BW-TAILLE
PLANET PUNCH
CARTAILS
du moulin

BURNT
TAMMIES

Research AWP Herpetofaunal Sampling Pitfall Array Data Sheet

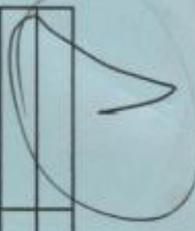
check for new
Newt - M&S
red
WOLF
SPIDER
7-3 CRANE FLID

245
11V
5290
11/1/2

missing thumb
& index finger

Scale Anky
Fat 1/2 mod

SITE & REPL	DATE	TIME	OBSV.	SPECIES	SEX	AGE CLASS	REPROD. COND.	SVL (mm)	TOT-L (mm)	tail-break (lizards)	MASS (g)	ID# (mark)	RECAP?	NOTES
PRC	"	11:41	CARP	SCMA	♀	JUN	nc	46	135	no	2.8	0001	no	- P&FL n. fume IN FUNNEL TRAP
RR1	14 APR 08	7:40	CARP	UTST	♀	AD	no egg	55	244		2.8	0001		
RR3	"	7:45	CARP	UTST	♀	AD		45	120	no	3.8	0002		
RR2	"	8:00	CARP	UTST	♀	AD		47	122		2.8	0003		
RR2	13 APR 08	nc	CARP	ASTI	♀	AD		43	130		2.0	0004		
RC2	"	ca. 2:40		UTST	♀	AD		45	560mm	56	2.06	0005		
RC2	"	11:40		UTST	♀	AD		47	97	54	2.06	0010		
RC2	"	11:40		UTST	♀	AD		46	120	A-91	2.08	0011		
RC2	"	11:40		UTST	♀	AD		55	244		3.0	0012		
RC2	"	11:40		UTST	♀	AD		74	117	64	3.0	0012		
RW4	15 April	3:45 PM	CARP	ASTI	M	AD		78	291	no	18g	0002	no	shedding
RR1	15 April	3:55 PM	CARP	UTST	M	AD		50	149	98	4.6	0013	no	
RR3	"	"	"	UTST	M	AD		49	130	89	3.0	001*	no	ret. Fat, leg only 1.5 mod
RW1	"	4:01	"	UTST	♀	AD		78	250	185	1.8	0003	no	
RR2	"	4:06	"	UTST	♀	AD	ovid	51	120		4.6	0014	no	or 1 or 1 mod
RR2	"	4:25A	"	UTST	M	AD	no egg	55	128	100	5.0	0015	no	
RR2	"	"	"	UTST	M	JUV	NO	36	90	NO	1.4	0020	NO	
RR2	"	"	"	ASTI	M	AD	NO	82	225	135	1.9	0004	NO	



one egg in
Female laid
ALL IN
S&B

RR2

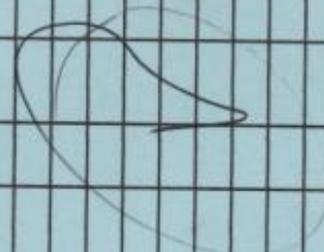
Research AWP Herpetofaunal Sampling Pitfall Array Data Sheet

SITE & REPL	DATE	TIME	OBSV.	SPECIES	SEX	AGE CLASS	REPROD. COND.	SVL	TOT-L	tail-break (lizards)	MASS	ID# (mark)	RECAP?	NOTES
WC2	16 APR 08	4:18 AM	Collected	UTST	♀	AD	—	46	130	—	5.6	0024		in PINKIE TRAY
RC2	16 APR 08	9:25	Collected	UTST	F	AD	—	47	46	125	2.6	0022		
RR2	"	9:45	"	UTST	♂	AD	—	81	143	—	5.0	0004		MISSING 2A
RWR3	"	10:30	"	UTST	M	AD	TEST	49	145	—	4.4	0023		
"	"	"	"	UTST	M	AD	TEST	83	285	NO	1.6	0005		
RWR5	"	10:14	"	UTST	♀	AD	—	51	177	NO	2.9	0010		Shedding
RWR6	"	10:50	"	UTST	M	AD	TEST	51	140	121	4.0	0024		NO
"	"	"	"	UTST	M	AD	TEST	51	140	121	4.0	0024		NO
RW4	16 APR 08	9:00	CARP	NADA										
RR1	"	4:10	"	NADA										
RR3	"	4:20	"	NADA										
AG5	"	6:00	CARP	NADA										
AG1	"	6:10	"	NADA										
AG2	"	6:15	"	NADA										
PCS	"	6:25	"	NADA										
AG5	17 APR 08	7:25 AM	Collected	UTST	♂	AD	TEST	48	135	—	3.8	0025		collected insects
AG7	"	7:38 AM	"	UTST	♂	AD	TEST	52	138	114	—	0030		#insects
AG1	"	7:55 AM	"	UTST	♂	AD	TEST	88	265	140	2.4	0011		
RC5	"	8:15 AM	"	UTST	♂	AD	OVID	48	134	NO	3.2	0031		
RW4	"	9:25	"	UTST	♂	AD	TEST	49	145	114	4.0	0032		
RR3	"	9:45	"	UTST	♂	AD	TEST	49	145	114	4.0	0032		
RW2	"	10:05	"	UTST	♀	AD	OVID	49	140	NO	4.0	0033		
RW1	"	10:22	"	UTST	♀	AD	OVID	49	140	NO	4.0	0033		
WC2	"	11:15	"	UTST	♂	AD	TEST	52	138	114	—	0030		LIZARD ESCAPED before mass measured.
RC2	"	11:25 AM	"	UTST	♂	AD	TEST	88	265	140	2.4	0011		
"	"	"	"	UTST	♂	AD	OVID	48	134	NO	3.2	0031		
RC4	"	11:37	"	UTST	♂	AD	TEST	49	145	114	4.0	0032		
"	"	"	"	UTST	♀	AD	OVID	49	140	NO	4.0	0033		
"	"	"	"	UTST	♀	AD	OVID	49	140	NO	4.0	0033		

Research AWP Herpetofaunal Sampling ^{Pitfall Array} Registering Data Sheet

SITE & REPL	DATE	TIME	OBS. BY	MI. or GPS	SPECIES	SEX	AGE CLASS	REPRODUCTIVE CONDITION	SVL (mm)	TOT-L (mm)	tail-break (lizards)	MASS (g)	ID# (mark)	RECAP?	NOTES
WC3	17 Aug 81	11:54	Comp & Clark		NONE	-	-	-	-	-	-	-	-	-	-
RR2	17 Aug 81	12:10	" "		NONE	-	-	-	-	-	-	-	-	-	-
RM3	"	3:00	Compton		ASTI	F	AD	Follicles	43	305	-	1.8	0022	NO	
"	"	"	"		UTST	F	AD	0	43	111	89	2.0	0034	NO	
"	"	"	"		ASTI	F	SA	-	55	156	-	-	0023	YES	DIT
"	"	"	"		UTST	M	-	-	-	-	-	-	-	-	-
RM5	17 Aug 81	3:15	" "		UTST	F	AD	-	47	127	NO	2.6	0035	NO	
RM6	"	3:25	" "		UROR	M	AD	-	50	134	NO	3.2	0001	NO	
"	"	"	"		UTST	F	AD	-	42	65	63	1.8	0040	NO	2mm bud tail
"	"	"	"		UTST	M	AD	Test	52	135	117	4.2	0041	NO	Regrowth

all 3 in sand bucket



[PARKER YUMA
BANKR MAY 08]

Research AWPf Herpetofaunal Sampling Pitfall Array Data Sheet

SITE & REPL	DATE	TIME	OBSV.	SPECIES	SEX	AGE CLASS	REPROD. COND.	SVL (mm)	TOT-L (mm)	tail-break (mm)	MASS (g)	ID# (mark)	RECAP?	NOTES
TW16A	12 MAY 08	1:00 P	CARP	ASTI										DIT
"	"	"	"	ASTI										DIT
TW16B	12 MAY	1:15	CARP	ASTI	♀	AD		74	214		19.7	0013	N	DARK color
"	"	"	"	ASTI	♂	AD		85	249	127	19.8	0014	N	
"	"	"	"	BLWD										DIT - bucket in PITS
"	"	"	"	ASTI	♂	AD		74	309		18	0015	N	"skinny"
"	"	"	"	ASTI	♀	AD		74	260		14	0020	N	
"	"	"	"	ASTI	♀	AD		65	250		12	0021	N	
"	"	"	"	ASTI	♀	AD		72	262		14	0022	N	
"	"	"	"	ASTI										DIT
"	"	"	"	ASTI										DIT
RW2	13 MAY 08	11:00 A	CARP	UTST	♀	AD	small	48	117	66	2.4	0042	N	
RW3	13 MAY	11:20	CARP	ASTI	♂	AD	nest	95	317		2.8	0023	N	
RW5	13 MAY	11:00	CARP	ASTI	♀	AD	full	86	305		2.8	0024	N	
"	"	"	"	ASTI	♀	AD		80	160	115	1.4	0025	N	
"	"	"	"	ASTI	♀	AD	01	80	175	172	1.4	0030	N	
"	"	"	"	UTST	♀	AD		46	127		3.0	0043	N	mites probably in bucket for last 2 hrs - DIT
"	"	"	"	UTST	♀	AD		45	114	15/51	2.96	0044	N	+ head many dots + Rhectoderm
RR6	13 MAY	7:15	CARP	ASTI	?	JUV								
RR6	14 MAY	7:00	CARP	SCMA										
RR6	14 MAY	7:00	CARP	UTST	♂									
RR6	"	9:00	UTST	UTST										
RR4	14 MAY 08	9:30	CARP	ASTI										
RR2	14 MAY 08	9:30	CARP	SCMA	♀	A	ped - fire	88	190		2.8	0001	N	RETARE DATA CAN
RR2	14 MAY 08	10:00	"	SCMA	♂	JUV		50	123		4.6	0002	N	yww
RR15	14 MAY	"	"	ASTI	♀	Ad		87	262/177		1.2	0031	N	Shedding
"	"	"	"	UTST										DIT
"	"	"	"	ASTI										DIT
"	"	"	"	UTST	♀	SA		45	127		2.0	0045	N	
"	"	"	"	ASTI										
"	"	"	"	ASTI										

ANY UTST likely were consumed by snake

RR2

RR3

RR5

RR6

RR15

*NEED TO GET BUCKETS CLOSED DUE TO BOSTER FLUNKIES (FILE IN?)

(RR2) (6%) 14 MAY @ RW5 1 return of 15 MAY (limp just off RD) (RW1)

Southwestern Biomes, Inc.

+ 2 @ RR3 (x pump head)

ADD WEATHER
COLD (mm)

Research AWPf Herpetofaunal Sampling Pitfall Array Data Sheet

SITE & REPL	DATE	TIME	OBSV.	SPECIES	SEX	AGE CLASS	REPROD. COND.	SVL (mm)	TOT-L (mm)	tail-break (mm)	MASS (g)	ID# (mark)	RECAP?	NOTES
RR2	5/14/08	4:30 PM	CARP	ASTI	♂	SA	—	54	193	—	3.2	0032	NO	
RW4	" "	5:30 PM	CARD	ASTI	♀	SA	—	67	235	—	6.2	0033	NO	
" "	" "	" "	" "	ASTI	♂	SA	—	76	257	—	7.0	0034	NO	
RR3	" "	5:50 PM	" "	ASTI	♂	SA	—	68	258	—	7.2	0035	NO	
" "	" "	6:00 PM	" "	ASTI	♀	Ad	—	72	260	—	8.0	0040	NO	
RC5	5/15	9:20 AM	CARP	URGR	♀	SA	—	46	111	—	2.5	0050	NO	
" "	5/15/08	" "	" "	ASTI	♀	Ad	—	85	144	134	18	0041	NO	
RC2	" "	10:30 AM	" "	UTST	♀	Ad	—	82	244	234	17	0042	NO	
RC4	" "	11:00 AM	" "	ASTI	♀	Ad	Foll	79	183	148	16	0003	YES	
" "	" "	" "	" "	ASTI	♂	Ad	—	72	248	157	14	0043	NO	* centipede
" "	" "	" "	" "	ASTI	♂	Ad	—	50	135	—	3.4	0002	NO	Yellow green snout
" "	" "	" "	" "	URGR	♂	Ad	—	50	131	—	3.6	0014	YES	
" "	" "	" "	" "	UTST	♀	Ad	OVID	62	145	—	4.2	0004	YES	
" "	" "	" "	" "	URGR	♂	Ad	—	55	75	75	4.0	0001	NO	
RMR3	5/15	12:30	" "	" "	" "	" "	" "	" "	" "	" "	" "	" "	" "	" "
AG1	16 MAY	7:30	CARP	NADA										
RNR	" "	8:30	CARP	NADA										
RNL	" "	8:45	CARP	NADA										
RW4	16 MAY	9:00	CARP	NADA										
RR1	16 MAY	9:15	CARP	NADA										
RR3	16 MAY	9:35	CARP	NADA										
RC5	" "	10:00	CARP	NADA										
RC2	16 MAY	1:00	CARP	UTST	♂	Ad	—	52	145	—	4.4	0004	NO	
RC7	16 MAY	1:30	CARP	ASTI	♂	Ad	—	72	225	185	10	0051	NO	
RC2	16 MAY	1:35	CARP	URGR	♂	Ad	—	58	79	79	4.0	0001	NO	
RC4	" "	1:45	CARP	URGR	♂	Ad	—							

HIGHEST MOON

3
11
908

Research AWP Herpetofaunal Sampling Pitfall Array Data Sheet

SITE & REPL	DATE	TIME	OBSV.	SPECIES	SEX	AGE CLASS	REPROD. COND.	SVL (mm)	TOT-L (mm)	tail-break (mm)	MASS (g)	ID# (mark)	RECAP?	NOTES
RR2	16 MAY 1988	12:15	CARP	ASTI	♂	A	—	90	187	147	13	0004	Y	
				ASTI	♂	A	—	75	283	—	13	0050	N	
				ASTI	♂	SA	—	64	284	—	5	—	N	ched
				URGR	♂	A	TEST	53	126	116	3.9	0002	N	
	17 MAY 1988	8:00		RACA - SACKING										
RMRS	"	8:10	CARP	NADA										
RMRS	17 MAY	8:20	CARP	UTST ♀		AD	—	58	147	119	4.9	0005	Y	
"	"	8:25	CARP	URGR ♂		AD	—	44	113	—	1.8	0003	N	
"	"	"	"	UTST ♀		ADSA	—	—	—	—	—	0051	N	
RMRS	17 MAY	8:45	"	NADA										
WC2	17 MAY	9:45	CARP	ASTI ♀		AD	FOU	83	303	—	14	0044	N	
"	"	"	"	UTST ♀		AD	—	15	130	95	2.4	0052	N	EX 114 Exposure
RC2	"	10:15	"	UTST ♀		AD	—	49	111	61	2.4	0053	N	
RC4	"	10:30	"	NADA										
NAC3	"	10:40	CARP	URGR ♀		A	GRAY	55	180	—	1.6	0004	N	
"	"	"	"	UTST ♀		A	—	42	123	—	2.4	0055	N	
RR2	17 MAY	11:00	CARP	URGR ♀		A	LO FOU	50	130	—	3.2	0005		
"	"	"	"	ASTI ♀		A-SA?	FOU	58	229	—	0	0045		
AG5	17 MAY	11:20	"	A										
AB2	"	11:35	"	A										
AG1	"	11:40	"	A										
RC5	17 MAY	11:55	CARP	UTST ♀		A	FOU	48	114	65	2.3	0100	N	
"	"	"	"	UTST ♀		A	TEST	45	130	—	0	0101	N	
RNY4	17 MAY	12:05	CARP	NADA										
RR1	17 MAY	12:20	"	NADA										
RR3	17 MAY	12:35	CARP	NADA										
RW1	17 MAY	12:50	CARP	NACA										
RIN2	"	1:05	"	" NADA										

RMRS 3

(101°F @ 12:30 -> 106°F @ 12:15) AB

244

7 Buses (peppers) sulphur

Buses

Cloud

Buses (tenets) Buses (Ruffinos)

WCH 17 MAY 6:30⁴⁵ Research AWP Herpetofaunal Sampling Pitfall Array Data Sheet
 NADA (GARP/MARK)

SITE & REPL	DATE '08	TIME	OBSV.	SPECIES	SEX	AGE CLASS	REPROD. COND.	SVL (mm)	TOT-L (mm)	tail-break (mm)	MASS (g)	ID# (mark)	RECAP?	NOTES
WC2	18 MAY	6:30	CARP	UTST	♀	A	-	45	130	-	2.0	0102	H	emaciated
RC2	"	7:00	"	UTST	♂	A	T	53	145	-	4.0	0103	N	
RC4	"	7:25	"	UTST	♀	A	Fowl	47	133	-	3.6	0104	H	plump
RC4	"	"	"	UTST	♀	A	Fowl	49	110	54	3.9	0105	H	
RC4	"	"	"	UTST	♀	SA	-	42	122	-	2.3	0110	H	
WC3	"	7:40	"	NADA	-	-	-	-	-	-	-	-	-	-
RR2	"	7:50	"	NADA	-	-	-	-	-	-	-	-	-	-
RR5	"	11:20	GAP	LAGS	-	-	-	-	-	-	-	-	-	N/A
"	"	"	CARP	LAGS	-	-	-	-	-	-	-	-	-	N
"	"	"	CARP	BRGR	♀	A	-	-	-	-	-	-	-	N
RR3	"	11:30	CARP	NADA	-	-	-	-	-	-	-	-	-	DIT (102°F) - get rid of bottle
RR6	"	11:30	CARP	ASTI	♀	A	-	75	252	-	4.6	0050	N	
"	"	11:35	CARP	UTST	♂	A	T	48	141	-	3.8	0111	H	bug
AG5	18 MAY	12:00	CARP	NADA	-	-	-	-	-	-	-	-	-	
AG2	"	12:00	"	"	-	-	-	-	-	-	-	-	-	
AP4	"	12:00	"	"	-	-	-	-	-	-	-	-	-	
RC5	18 MAY	11:15	CARP	SCMA	-	-	-	-	-	-	-	-	-	
RM4	"	6:50	"	NADA	-	-	-	-	-	-	-	-	-	
RR1	"	6:55	"	NADA	-	-	-	-	-	-	-	-	-	
RR3	"	1:05	"	ASTI	♀	A	-	71	254	-	10	0051	-	108°F
"	"	"	"	ASTI	♂	A	-	75	270	-	11	0052	-	109°F
RNR2	"	1:25	"	ASTI	-	-	-	-	-	-	-	-	-	108°F
RW1	"	1:25	"	NADA	-	-	-	-	-	-	-	-	-	109°F
WC2	19 MAY	6:15	CARP	NADA	-	-	-	-	-	-	-	-	-	108°F
RC2	19 MAY	6:30	"	LAGR	♀	A	♀	56	100	-	4.0	-	-	109°F
RC4	"	"	"	NADA	-	-	-	-	-	-	-	-	-	108°F
WC3	"	"	"	NADA	-	-	-	-	-	-	-	-	-	108°F
RR2	"	7:00	"	NADA	-	-	-	-	-	-	-	-	-	108°F

sunlight on sun
 105°F
 108°F
 109°F
 108°F
 AC = 10°F

3 x UTST ♀ (BA) are rec'd 0001
 + healthy plump

YEAR-YWM OCT 08
 Research AWP Herpetofaunal Sampling Pitfall Array Data Sheet

AST1 0052 UROR 0002
 UTST 0111 SCMA 0002
 URGR 0005 0011
 1A

SITE & REPL	DATE	TIME	OBSV.	SPECIES	SEX	AGE CLASS	REPROD. COND.	SVL	TOT-L	tail-break (lizards)	MASS	ID# (mark)	RECAP?	NOTES
RW4	23 OCT 08	0900	CARP	AST1	—	—	—	—	—	—	—	—	—	
RR1	" "	1600	CARP	BWUD	—	—	—	—	—	—	—	—	—	
RFR2	24 OCT	1130	CARP	SCMA	♀	J	—	45	116	—	53g	CHR00202	N	DIT found in moist soil when re-digging found in hole to bucket
RFR2	" "	" "	" "	SCMA	♂	S/SA	—	59	142	—	3g	0003	—	
RFR2	" "	" "	" "	SCMA	♂	S/SA	—	58	133	—	7g	0004	—	
RFR2	" "	" "	" "	SCMA	♀	T	—	41	100	—	7g*	0005	—	
RFR2	" "	" "	" "	SCMA	♀	T	—	52	126	—	2g*	0010	—	
RFR4	" "	" "	" "	URGR	♂	S/SA	—	45	127	—	2g*	0012	—	thickly / THIN
RR4	" "	" "	" "	BUPV	—	—	—	—	—	—	—	—	—	
RW5	" "	" "	" "	AST1	♂	T	—	45	162	—	3g	0063	—	DIT (desus)
RW5	" "	" "	" "	AST1	?	T	—	39	79	76	2g	0054	—	
RW3	" "	" "	" "	BURD	?	—	—	—	—	—	—	—	—	
RFR2	26 OCT	0945	CARP	SCMA	♂	J	—	43	98	—	—	0011	—	DIT (desus)
RFR2	" "	" "	" "	SCMA	♀	S/SA	—	51	123	—	—	0012	—	
RFR2	" "	" "	" "	SCMA	♀	T	—	44	114	—	—	0013	—	
RFR4	" "	1010	CARP	BWUD	?	T	—	—	—	—	—	—	—	
RFR6	" "	1040	CARP	SCMA	♀	J/SA	—	38	64	52	—	0014	—	DIT - eye checked / OK
RFR6	" "	" "	" "	UTST	♀	A	—	42	116	—	—	0112	—	Knock SCAR
RFR6	" "	" "	" "	UTST	♀	A	—	39	64	64	—	0013	—	
RFR6	" "	" "	" "	UTST	♂	A	—	44	115	—	—	0014	—	
RFR6	" "	" "	" "	UTST	♂	A	—	—	—	—	15g	CH100704	—	

BILL WILLIAMS, 24-26 OCT 08
 RIVER MWR
 (TUDES, PLANET RANCH)

* = ELBc. EVANICE

YEW-YVW OCT 08

Research AWP Herpetofaunal Sampling Pitfall Array Data Sheet

YEH/YVW
0508

(2A)

SITE & REPL	DATE	TIME	OBSV.	SPECIES	SEX	AGE CLASS	REPROD. COND.	SVL	TOT-L	tail-break (lizards)	MASS	ID# (mark)	RECAP?	NOTES
WC2	27 OCT	1040	CARP	UTST	♀	A	—	44	127	—	2.3g	0142	N	
WC2	"	"	"	UTST	♂	A	—	43	121	—	2.3g	0143	N	
RC5	27 OCT	0850	CARP	UTST	?	A	DIF	DIF	desucked					
RC5	"	"	"	UTST	♀	A	3 WPA	50	141	—	4.5g	0144	H	PLUMP
RC5	"	"	"	UTST	♂	A	—	43	116	—	3g	0145	N	
WC3	27 OCT	1125	CARP	UTST	♂	H/H	—	31	91	—	2.1g	0150	N	
WC3	"	"	"	UTST	♂	H	—	27	72	—	2.1g	0151	N	
WC3	"	"	"	UTST	♀	H	—	28	80	—	2.1g	0152	N	
RC4	28 OCT	0600	CARP	ASTI	♀	A	—	56	210	—	3.5g	0101	N	
YVW E	28 OCT	1330	CARP	UTST	♂	A	—	39	116	—	—	0153	N	
YVW C	"	"	CARP	N/A	D	A	—							
YVW W	"	1350	CARP	RHLE	♀	SA?	—	265	300	—			N	
WC2	"	1420	CARP	ASTI	?	J	—	40	146	—	1g	0103	N	IN PLUMBER
WC2	"	"	"	UTST	♂	J	—	26	100	—		0201	N	BOTTLE
RC2	"	1435	CARP	UTST	♀	SA	—	34	90	—		0154	N	
WC3	"	1500	"	UTST	♂	A	—	48	144	—		0155	N	
WC3	"	"	"	UTST	♀	J/H	—	37	76	—	1.1g	0200	N	
WC3	"	"	"	URGR	?	H	—	22	59	—	2.1g	—	N	PICKED
WC3	"	"	"	ASTI	?	J	—	40	140	140		0102	N	
WC3	"	"	"	SCMA	♂	J/H	—	36	81	—	1g	0021	N	
RC5	29 OCT 08	0845	CARP	UROR	♂	A	—	40	105	—		0003	N	OR THK
RR3	"	0945	"	UTST	♂	A	—	39	104	—		0202	N	
RR3	"	0945	"	ASTI	♀	SA	—	47	150	—		0103	N	
YVW E	"	1230	CARP	UTST	♀	A	—	38	111	—		0003	Y	

TIME

Research AWP Herpetofaunal Sampling Pitfall Array Data Sheet

Nov 08

ASTI 0103
 LTST 0202
 SCMA 0021

SITE & REPL	DATE	TIME	OBSV.	SPECIES	SEX	AGE CLASS	REPROD. COND.	SVL	TOT-L	tail-break (lizards)	MASS	ID# (mark)	RECAP?	NOTES
RN1	15 NOV	1030h	CARP	ASTI	♀(?)	SA	—	40	156	—	2.5g	205 0104	N	
WC2	"	1110h	CARP	LTST	♀	SA	—	33	92	—	0.5g	0203	H	
WC3	"	1145h	CARP	LTST	♂	H/S	—	20	75	—	2.05g	0204	N	
RR2	"	1215h	CARP	URGR	♂	A	—	40	71	66	3.9g	0031	H	
YNWH	14 NOV 08	1045	CARP	LTST	♀	J	—	20	01	—	2.05g	0204	H	
REFRIP6	16 NOV 08	1952h	CARP	LTST	♂	A	—	39	111	—	0.8g	—	N	smectified, did not make it
REFRIP2	16 NOV	1908	CARP	SCMA	♀	J	—	50	125	—	6.0g	0022	N	
REFRIP2	16 NOV	1908	CARP	SCMA	♀	J	—	49	110	—	4.5g	0023	H	
REFRIP2	16 NOV	1430	CARP	SCMA	♂	J	—	58	142	—	7.0	0024	N	
REFRIP6	16 NOV	1500h	CARP	LTST	♂	A	—	49	140	—	3.5g	0205	N	
REFRIP6	"	"	"	LTST	♀	A	—	45	106	60	3.0g	0200	Y	0114
YNWE	19 NOV	1130	CARP	LTST	♂	A	—	47	139	—	3.2g	0210	N	
YNWE	"	"	"	URGR	♂	A	—	42	106	106	2.5g	0032	N	
YNWH	"	1145	CARP	LTST	♀	SA	—	37	87	44	1.4g	0211	N	URGR
YNWH	"	"	"	URGR	♂	A	—	40	93	69	2.5g	033	N	
WC2	"	1220	"	LTST	♀	A	—	40	115	71	2.5g	0212	N	
WC2	"	"	"	LTST	♂	A	—	42	116	—	2.5g	0213	N	
RC2	"	1250	CARP	LTST	♀	A	—	40	113	—	1.9g	0022	Y	
RC2	"	"	"	LTST	♀	A	—	47	181	—	2.0g	0105	Y	(FORM-0005)
WC3	"	1315	CARP	LTST	♂	H	—	25	71	—	2.5g	0214	N	
WC3	"	"	"	LTST	♀	H	—	26	70	—	—	0151	Y	
WC3	"	"	"	LTST	♂	H	—	30	79	—	—	0200	Y	
RR2	"	1330	CARP	URGR	♂	HIT	—	26	41	41	4.5g	034	N	
RR2	"	"	"	URGR	♀	H	—	30	58	57	2.5g	035	N	ESC IN TRUCK
RC5	"	1415	CARP	URGR	♀	J	—	30	58	—	—	0215	N	
RC5	"	"	"	LTST	♀	J	—	40	115	—	—	0216	Y	small ♂
RC5	"	"	"	URGR	♂	A (ADP)	—	—	—	—	—	0003	—	—

Appendix I. Vegetation Maps



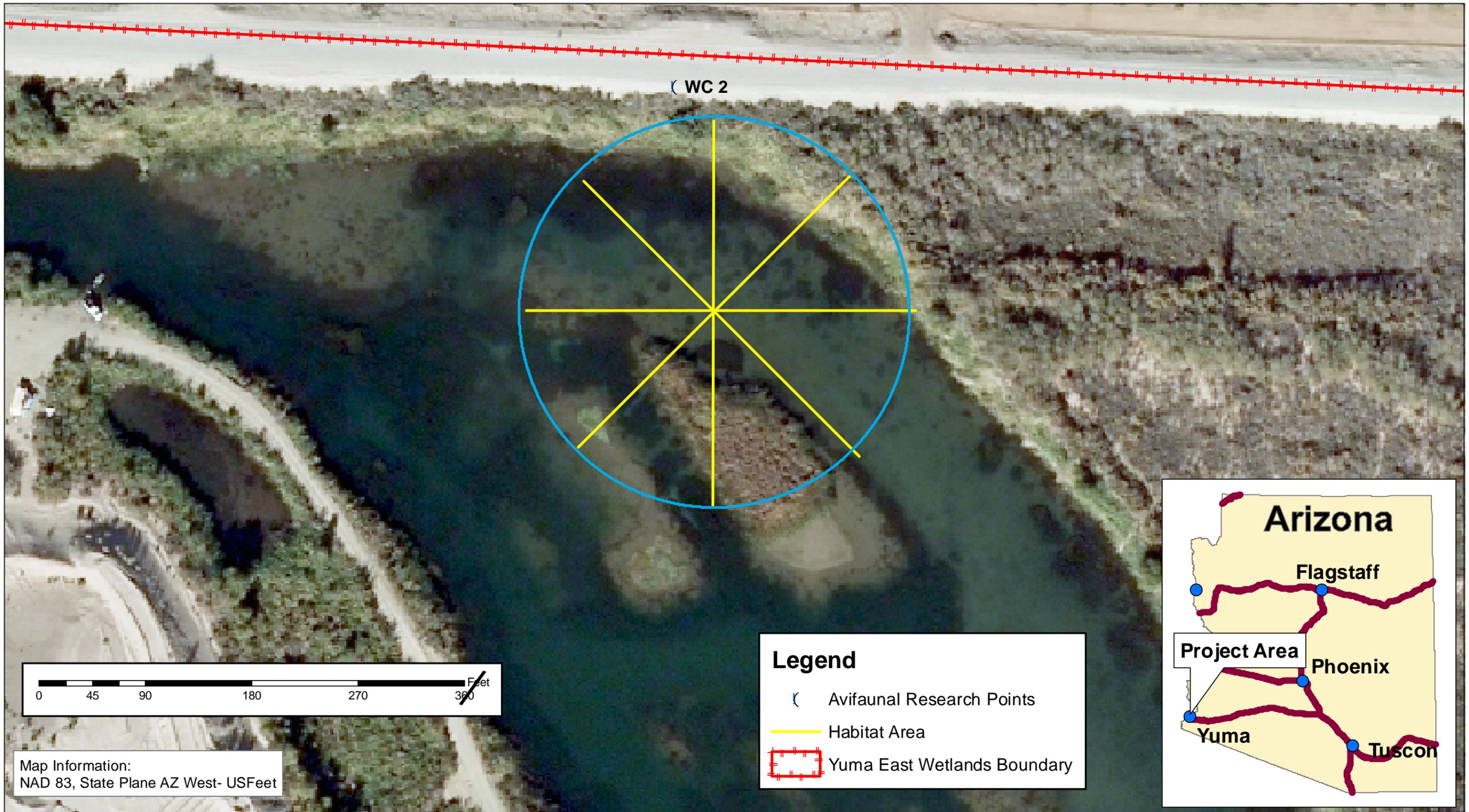
Prepared By:
Fred Phillips Consulting, LLC
401 South Leroux St.
Flagstaff, AZ 86001

ARIZONA WATER PROTECTION FUND

**RESEARCH AWPf
GRANT NO. 08-153WPF**

**YEW Control Wetland 3
Vegetation Mapping**

May 2008



Prepared By:
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ARIZONA WATER PROTECTION FUND

**RESEARCH AWPf
GRANT NO. 07-147WPF**

**YEW Restored and Control Wetland;
Control and Recently Restored Riparian;
and Agricultural Avifaunal Survey Points**

May 2008



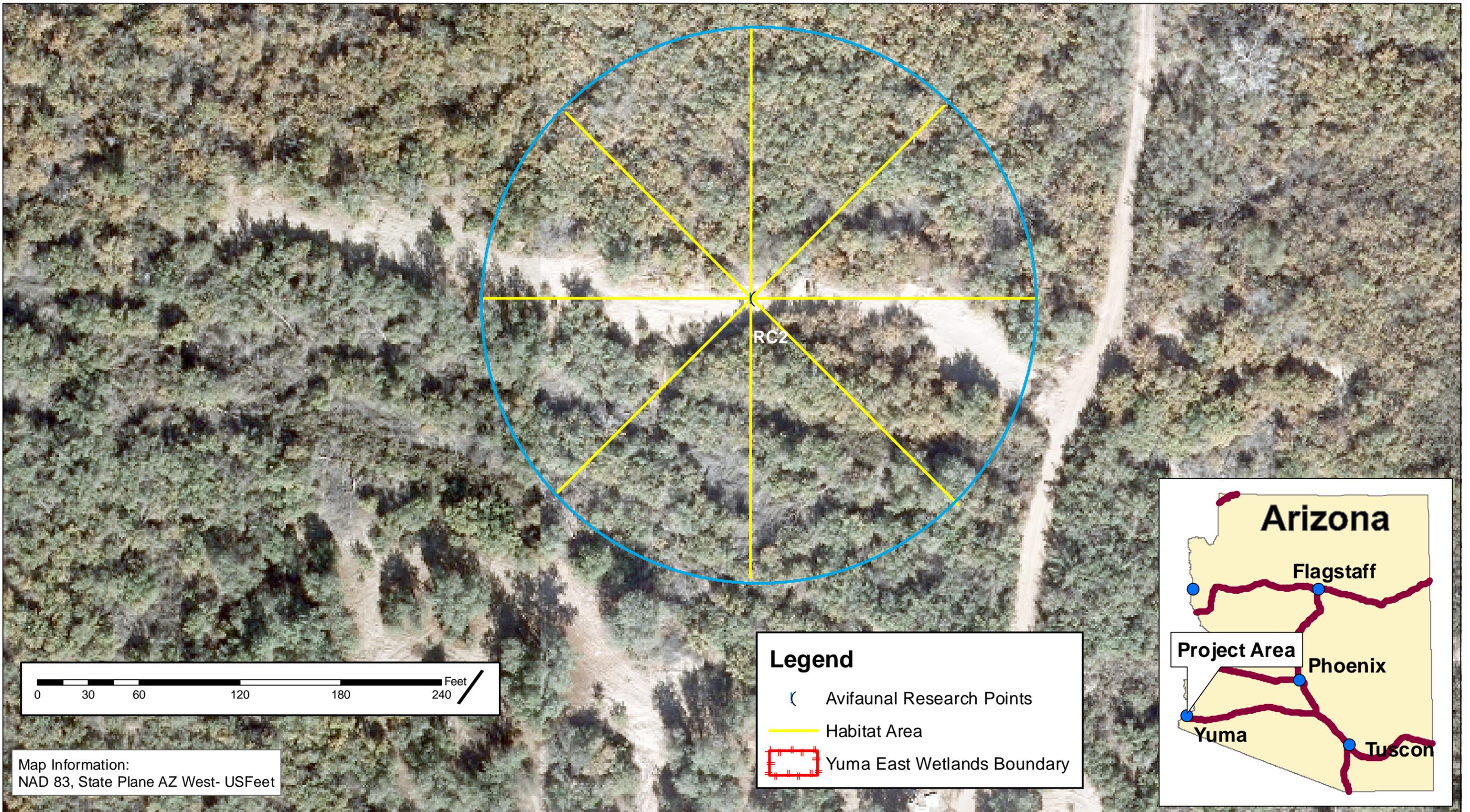
Prepared By:
Fred Phillips Consulting, LLC
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Flagstaff, AZ 86001

ARIZONA WATER PROTECTION FUND

**RESEARCH AWPf
GRANT NO. 08-153WPF**

**YEW Control Riparian 4
Vegetation Mapping**

May 2008



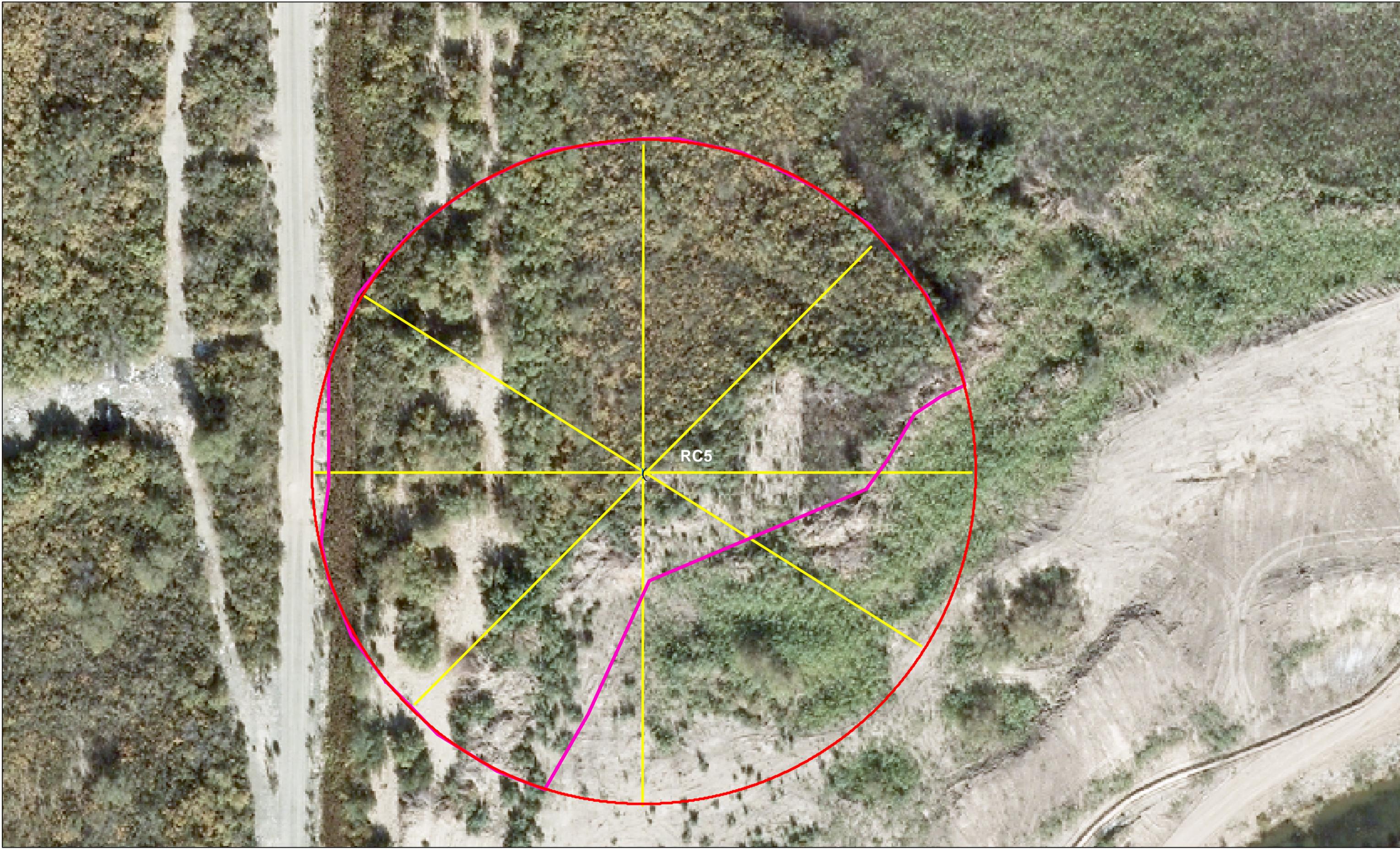
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ARIZONA WATER PROTECTION FUND

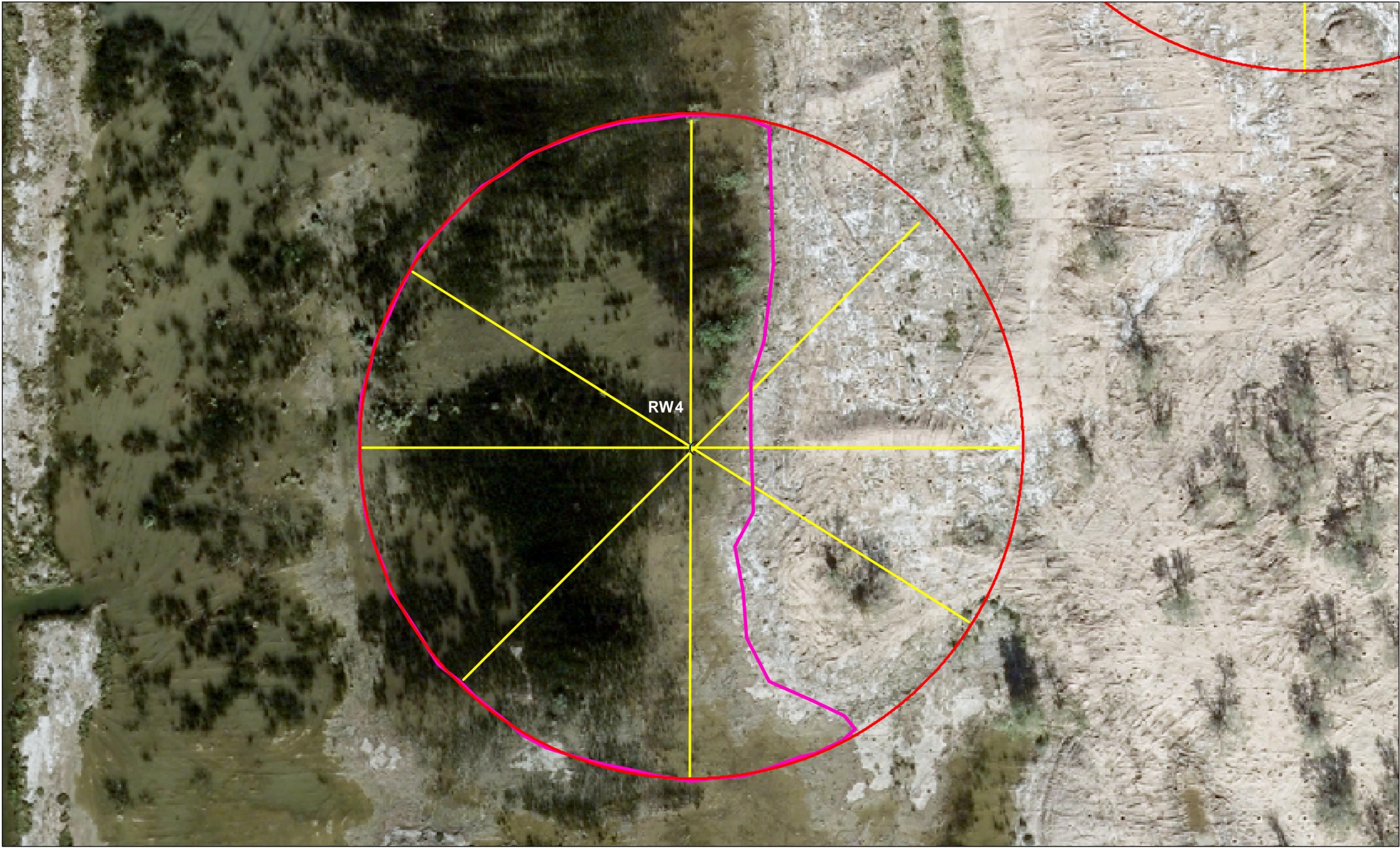
**RESEARCH AWP
 GRANT NO. 07-147WPF**

**YEW Restored and Control Wetland;
 Control and Recently Restored Riparian;
 and Agricultural Avifaunal Survey Points**

May 2008



RC5





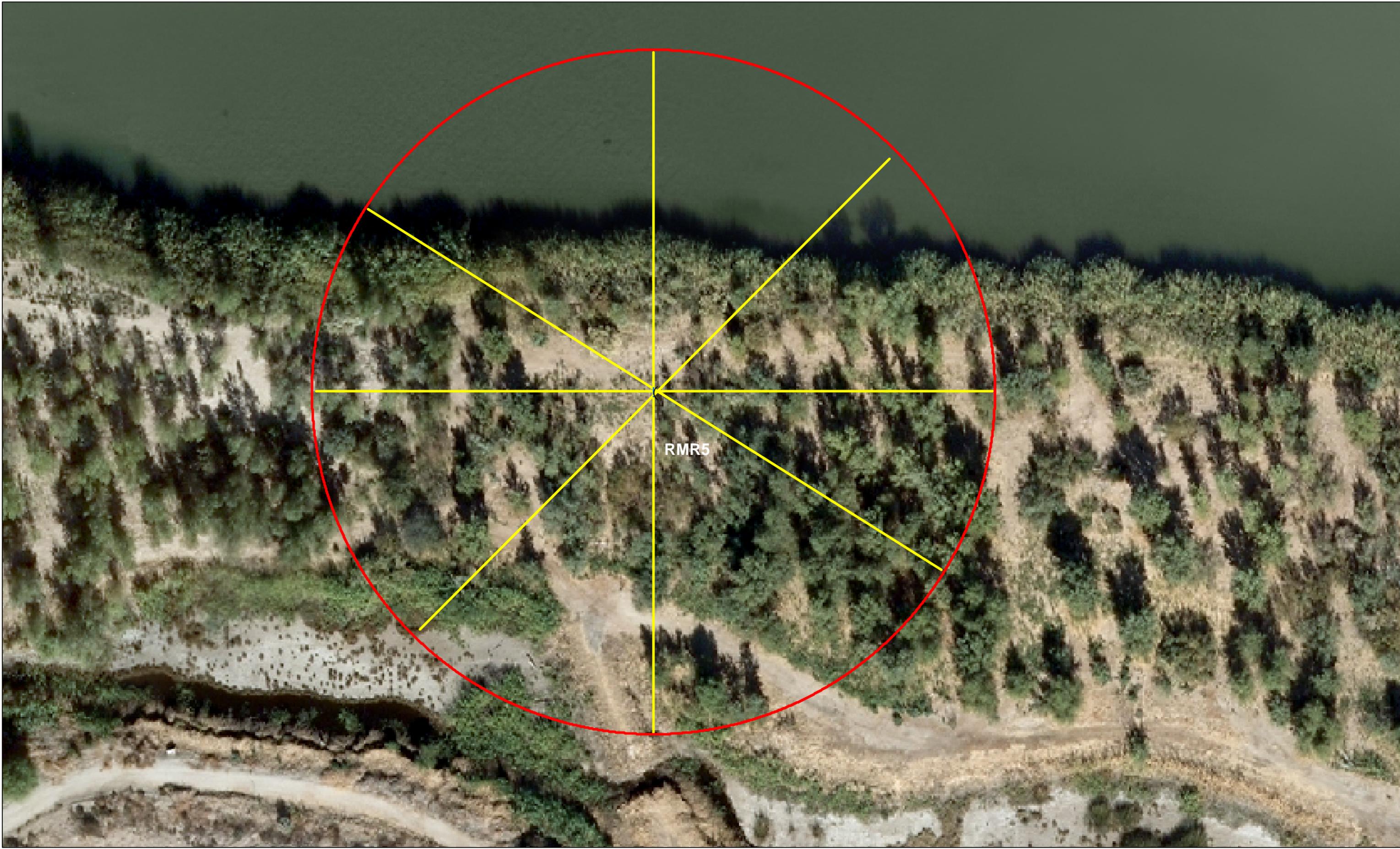
RW2



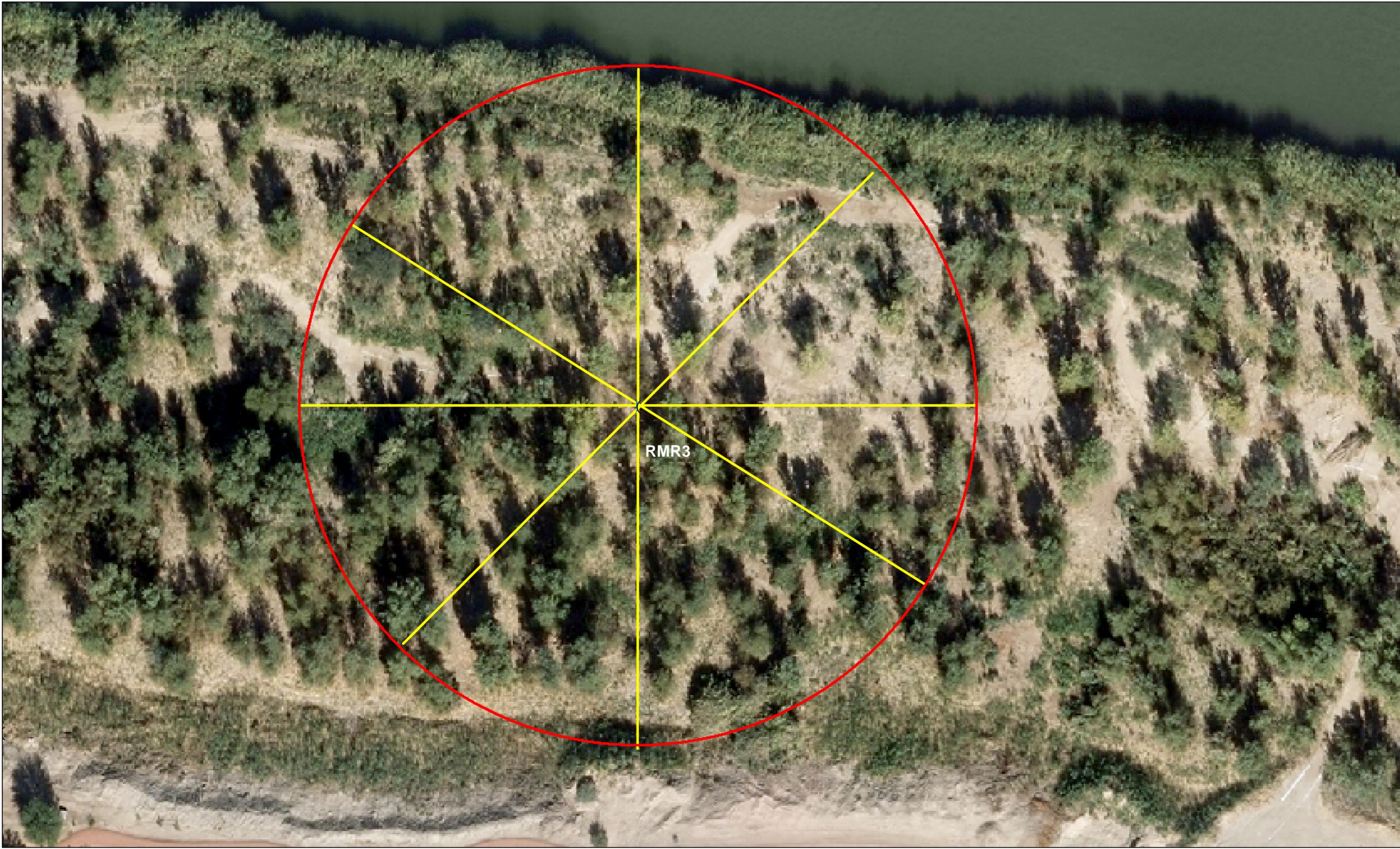
RW1



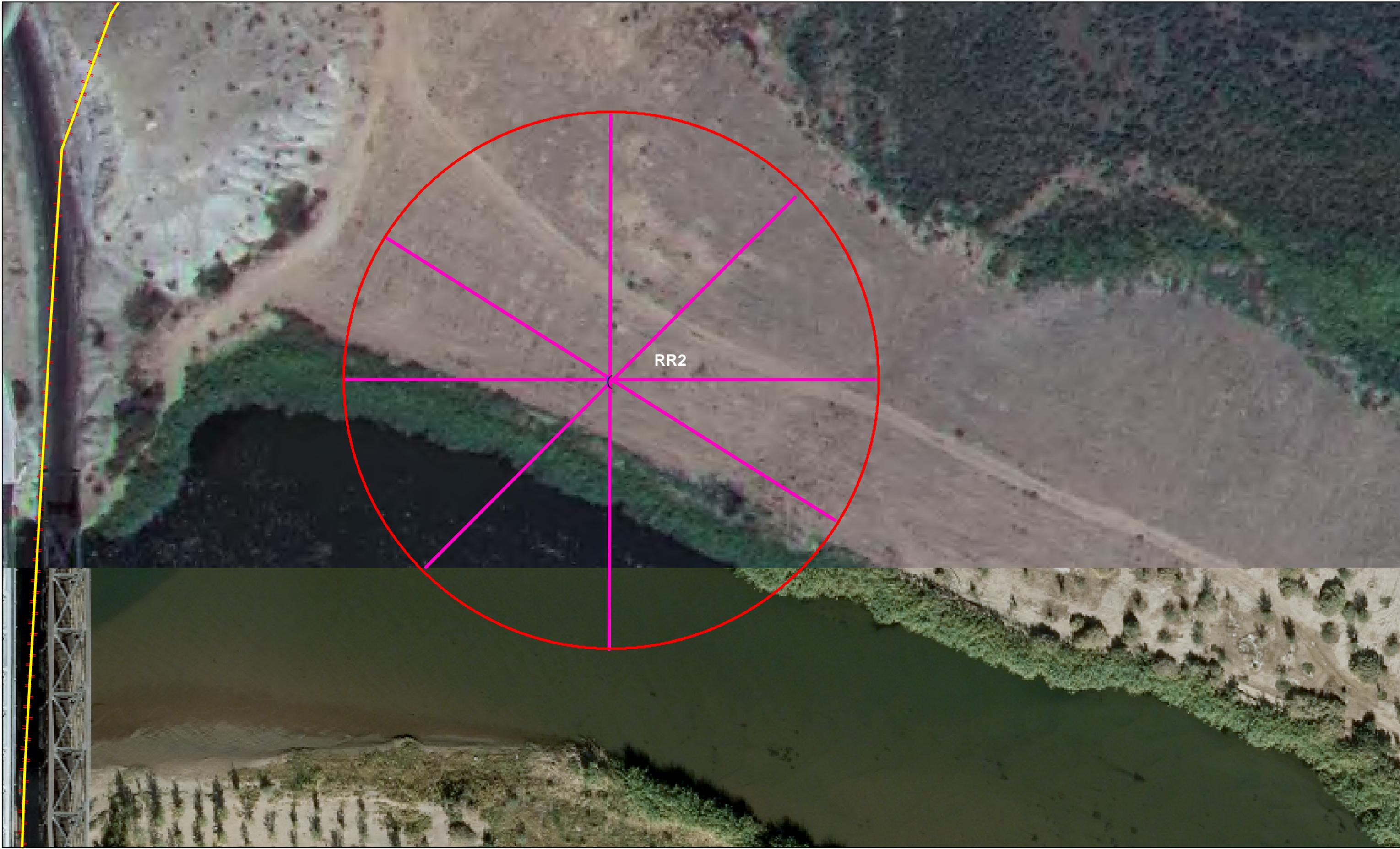
RMR6



RMR5



RMR3



RR2



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GRANT NO. 08-153WPF**

**YEW Immature Restored Riparian 3
Vegetation Mapping**

May 2008

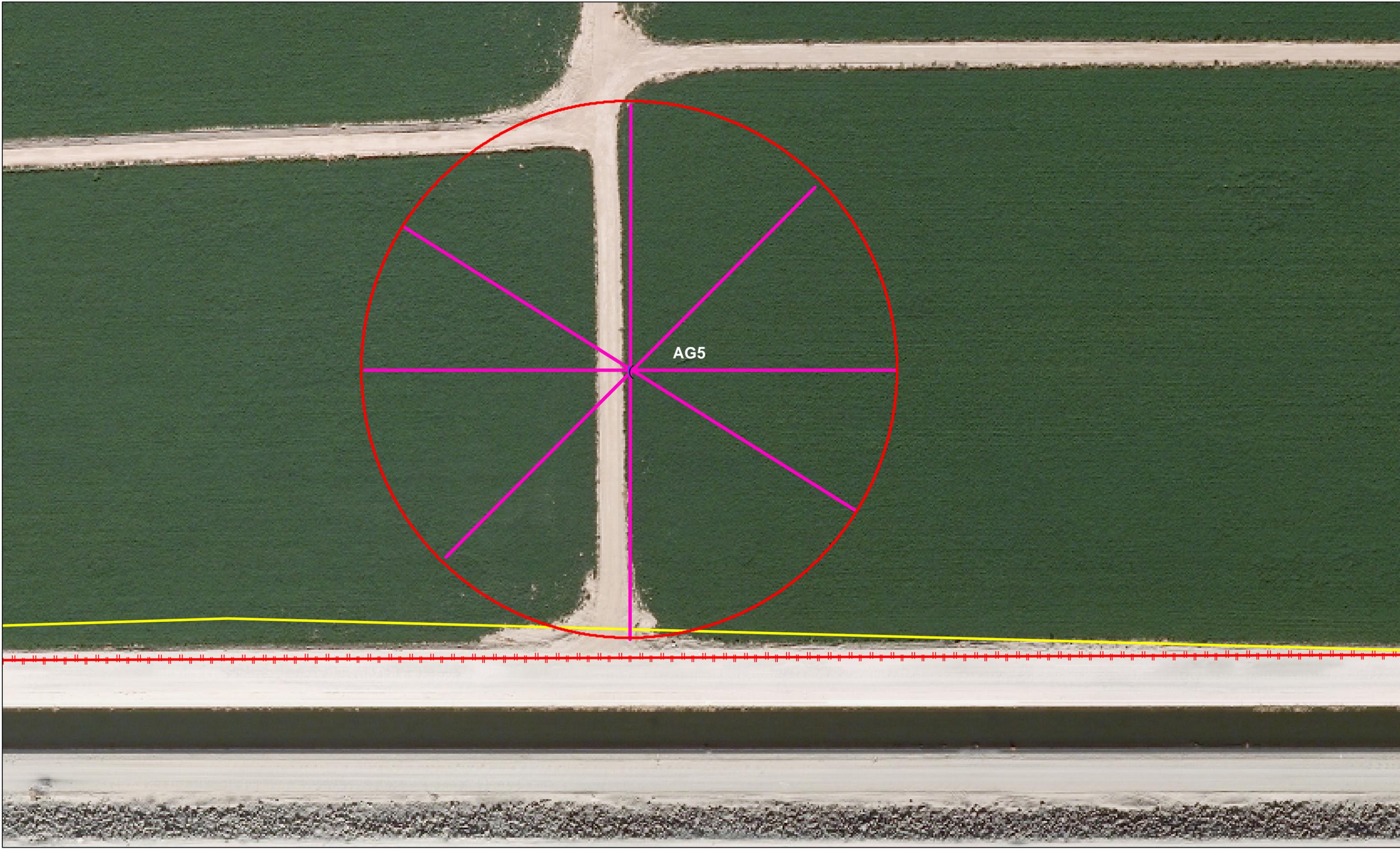


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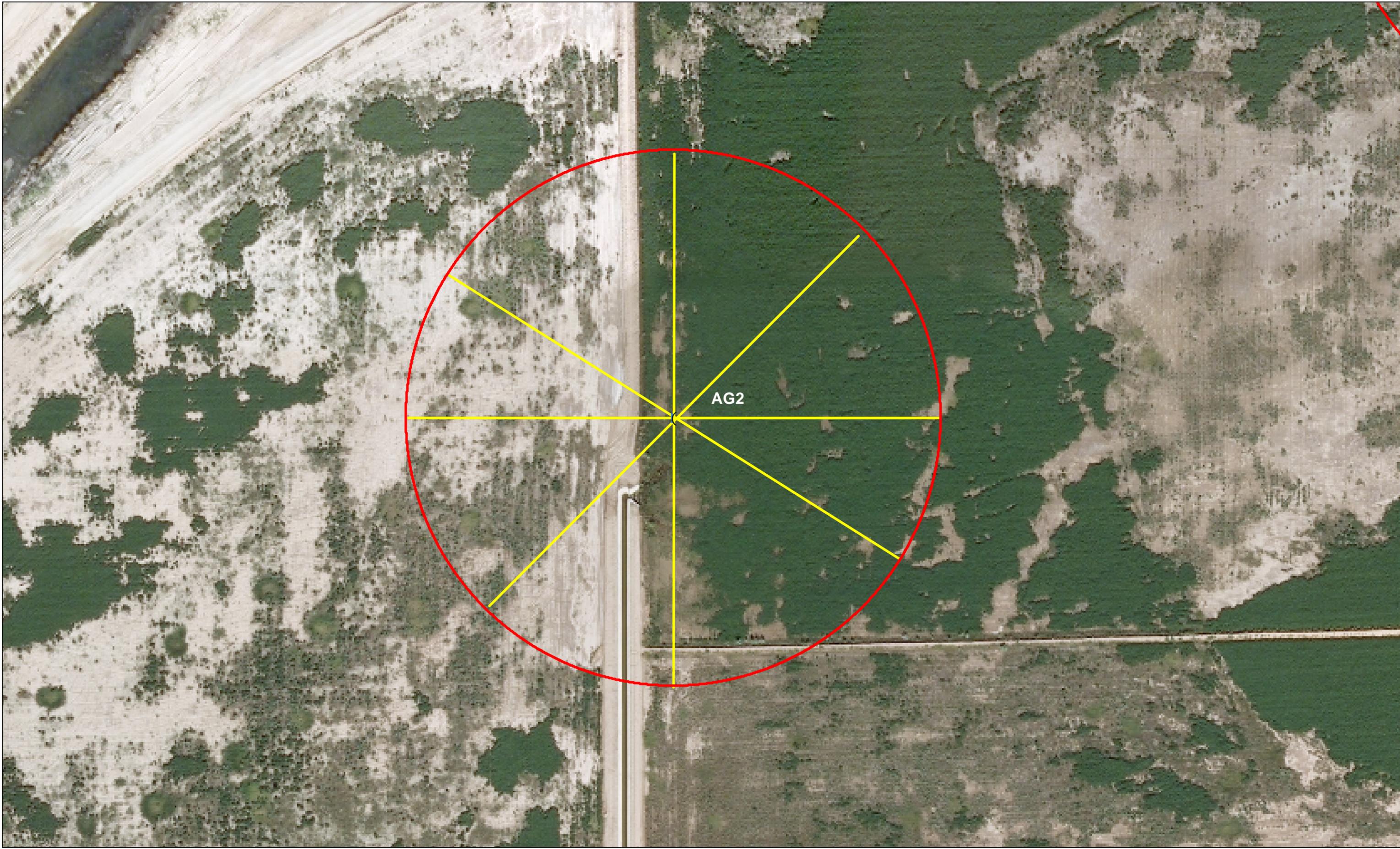
ARIZONA WATER PROTECTION FUND
RESEARCH AWPf
GRANT NO. 08-153WPF

YEW Immature Restored Riparian 1
Vegetation Mapping

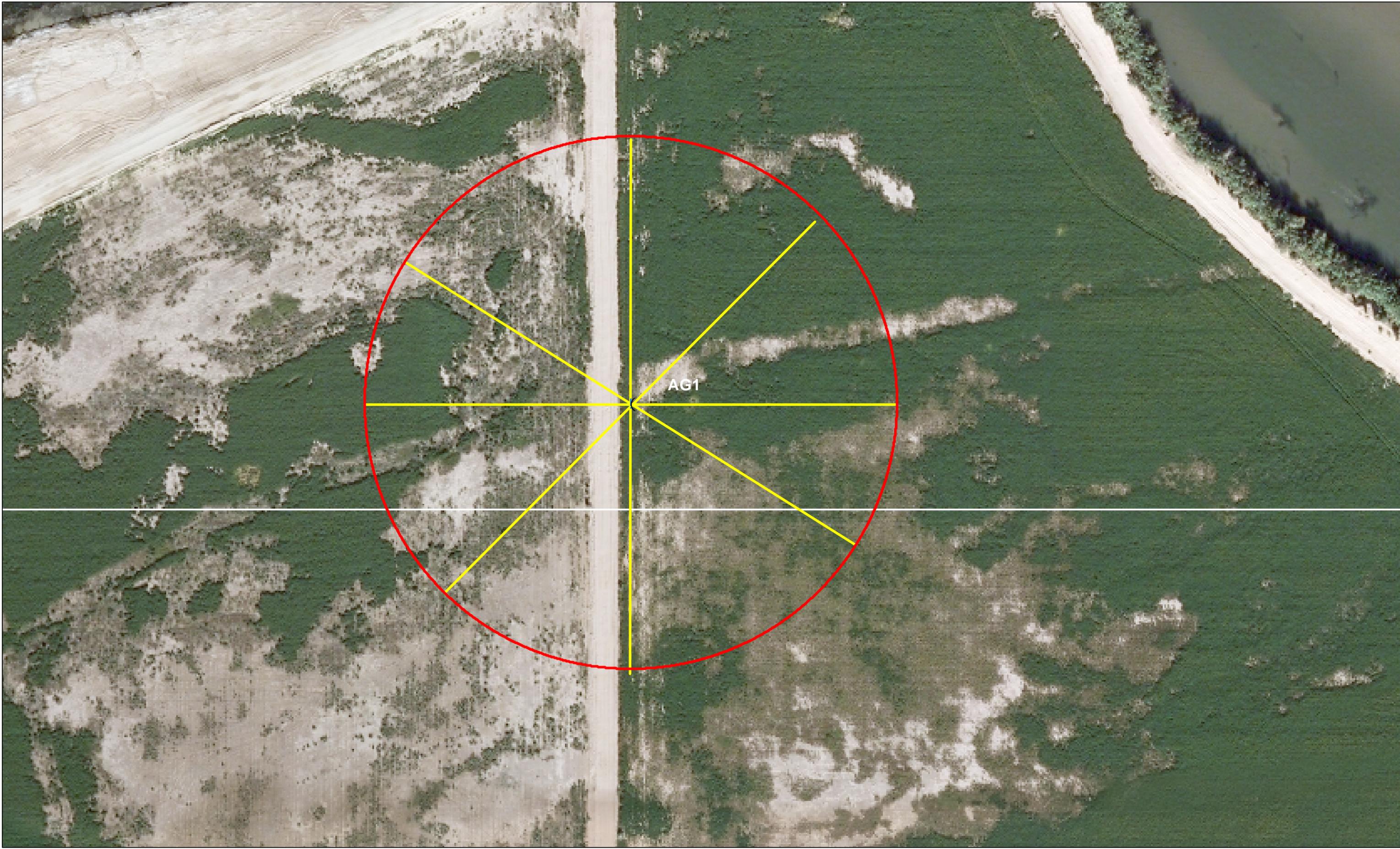
May 2008



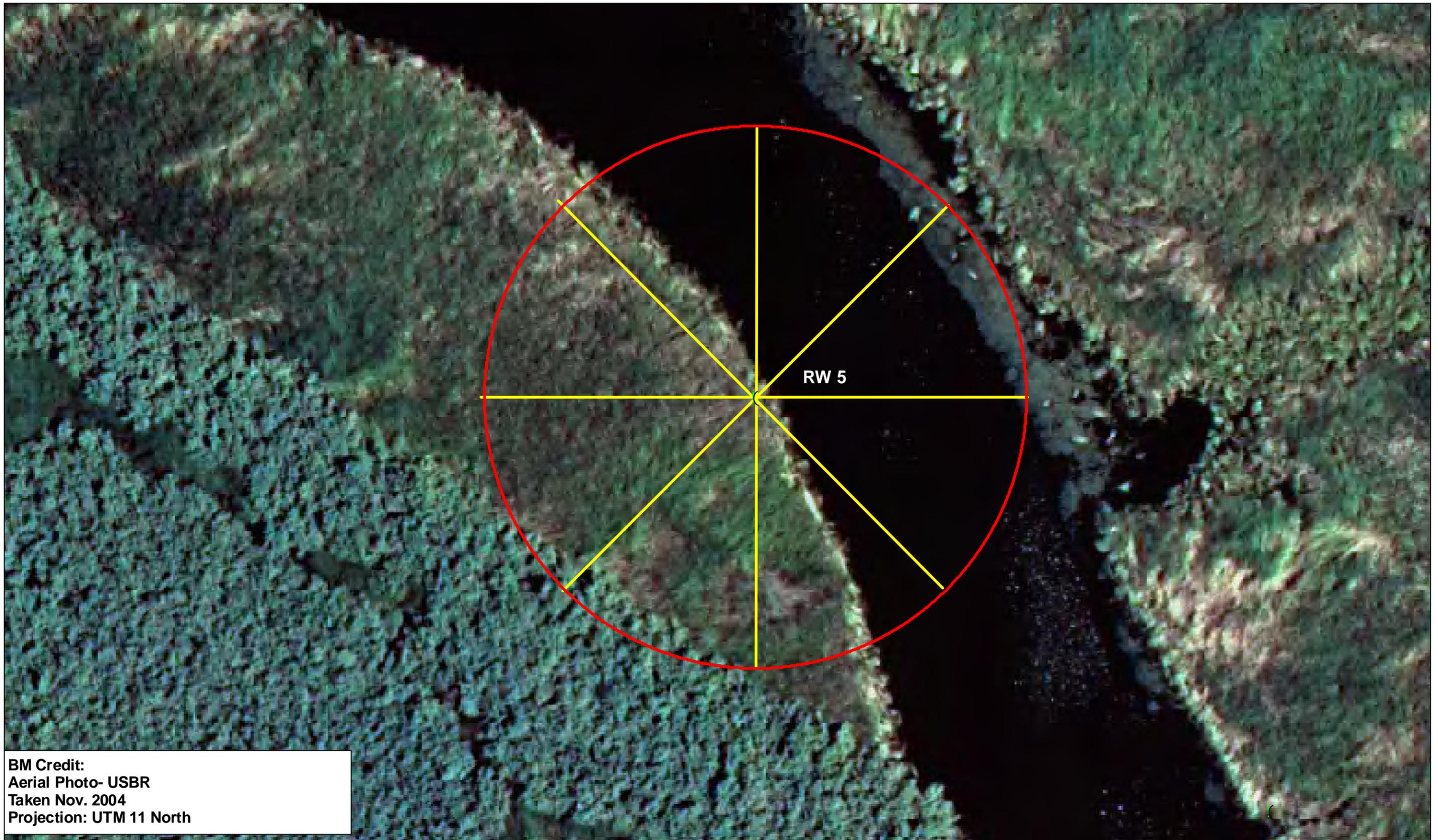
AG5



AG2



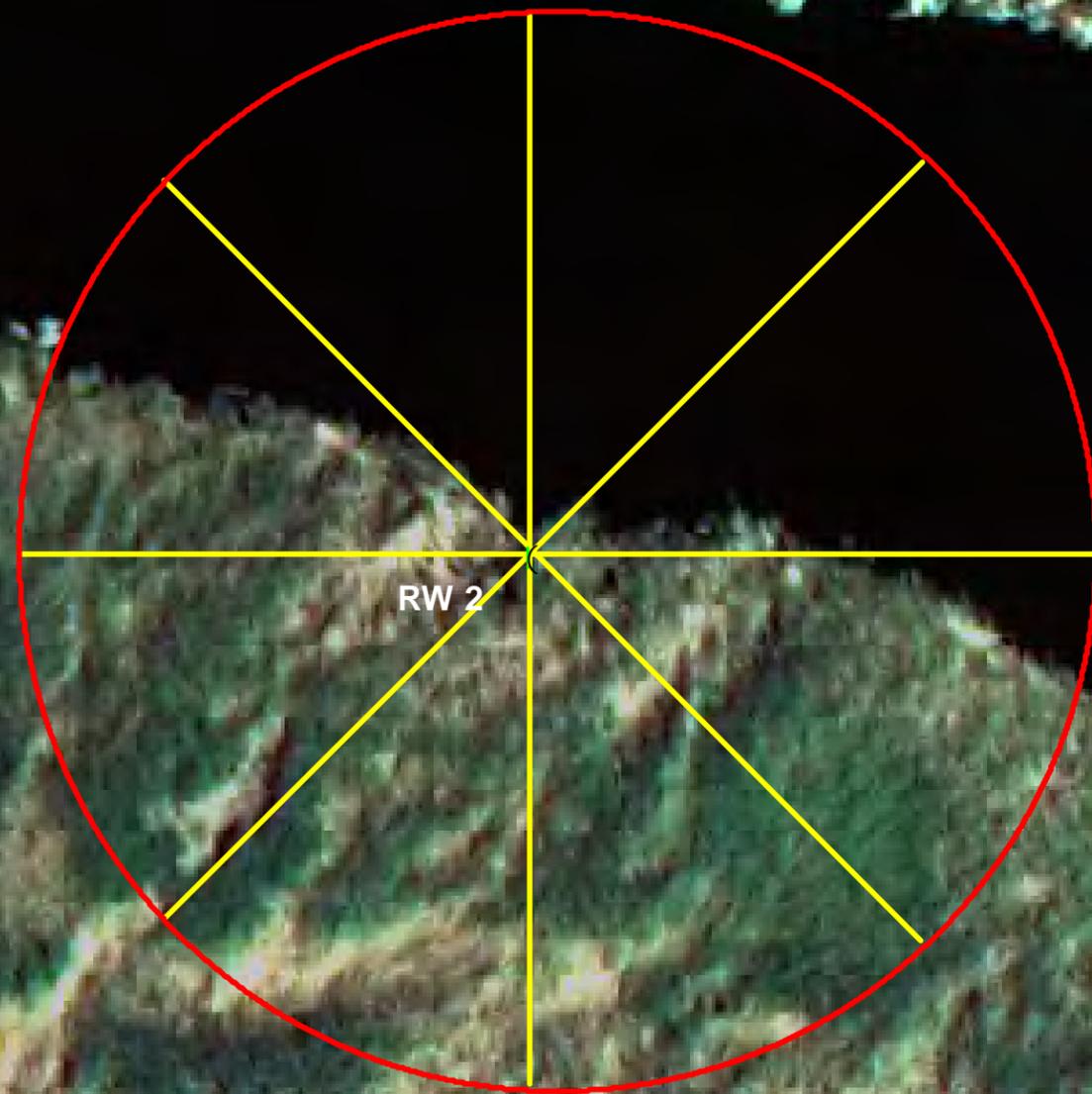
AG1



BM Credit:
Aerial Photo- USBR
Taken Nov. 2004
Projection: UTM 11 North



BM Credit:
Aerial Photo- USBR
Taken Nov. 2004
Projection: UTM 11 North



BM Credit:
Aerial Photo- USBR
Taken Nov. 2004
Projection: UTM 11 North

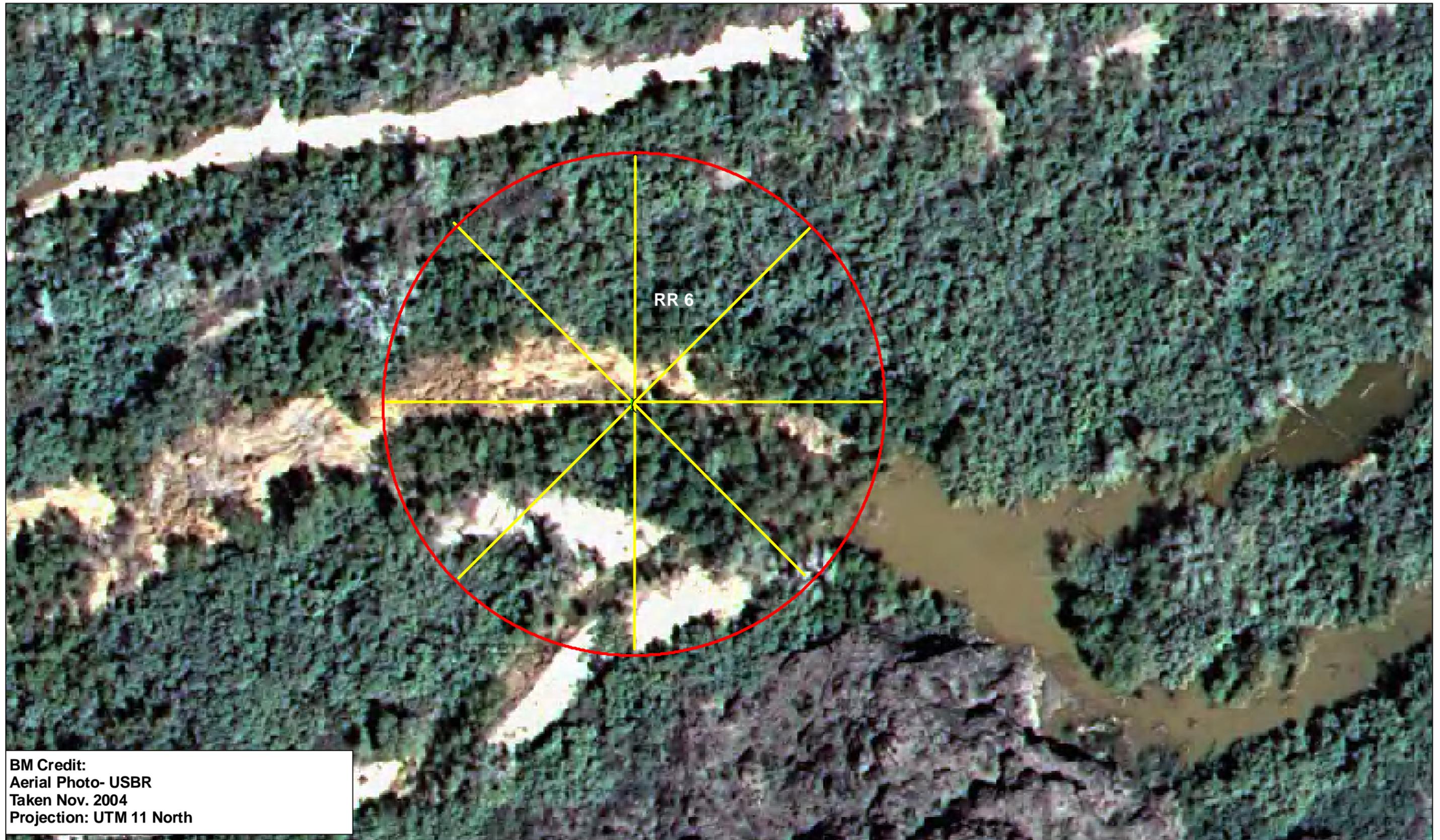
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GRANT NO. 08-153WPF

BWNWR Reference Wetland 2
Vegetation Mapping

May 2008



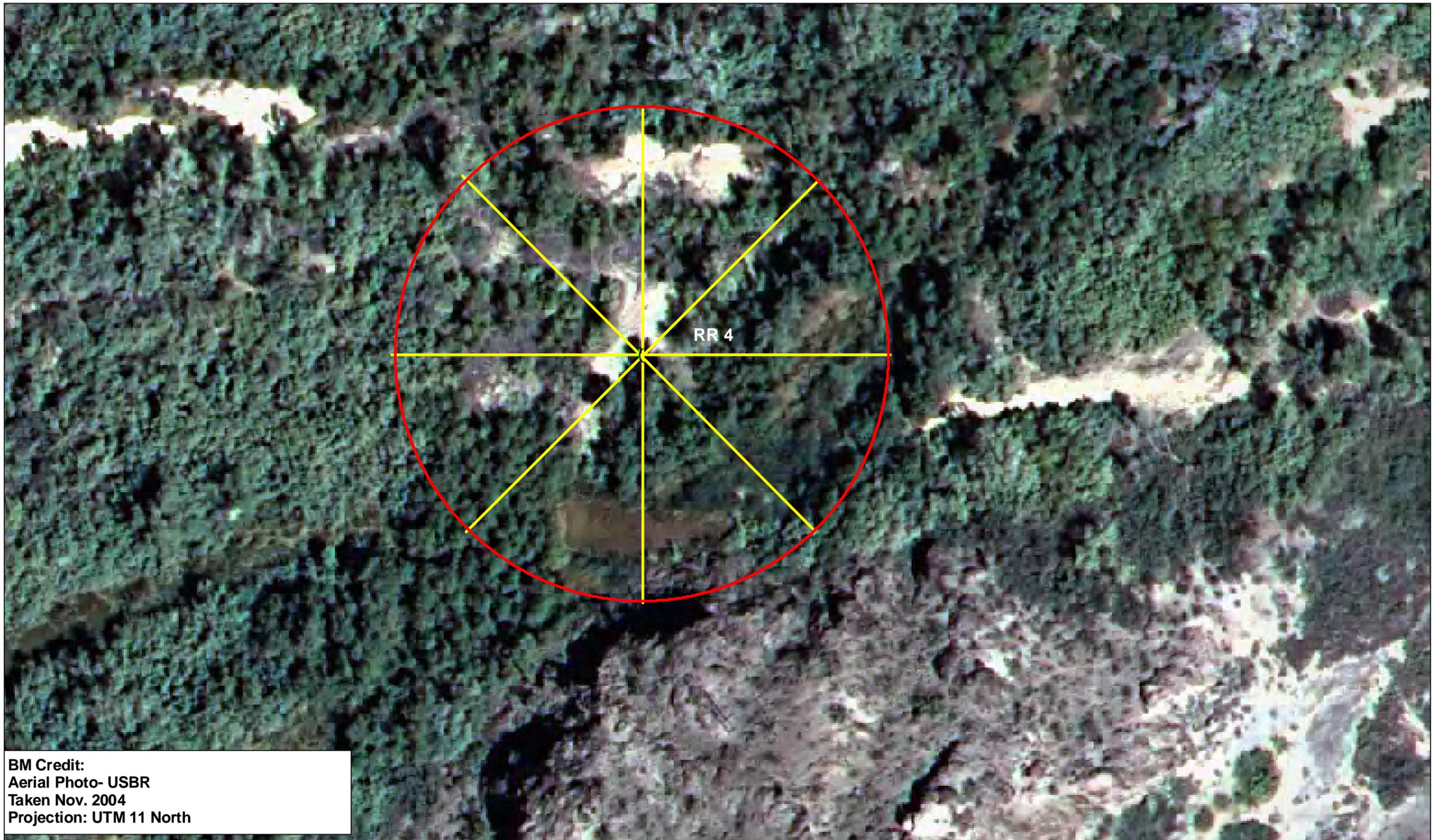
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GRANT NO. 08-153WPF

BWNWR Reference Riparian 6
Vegetation Mapping

May 2008



BM Credit:
Aerial Photo- USBR
Taken Nov. 2004
Projection: UTM 11 North

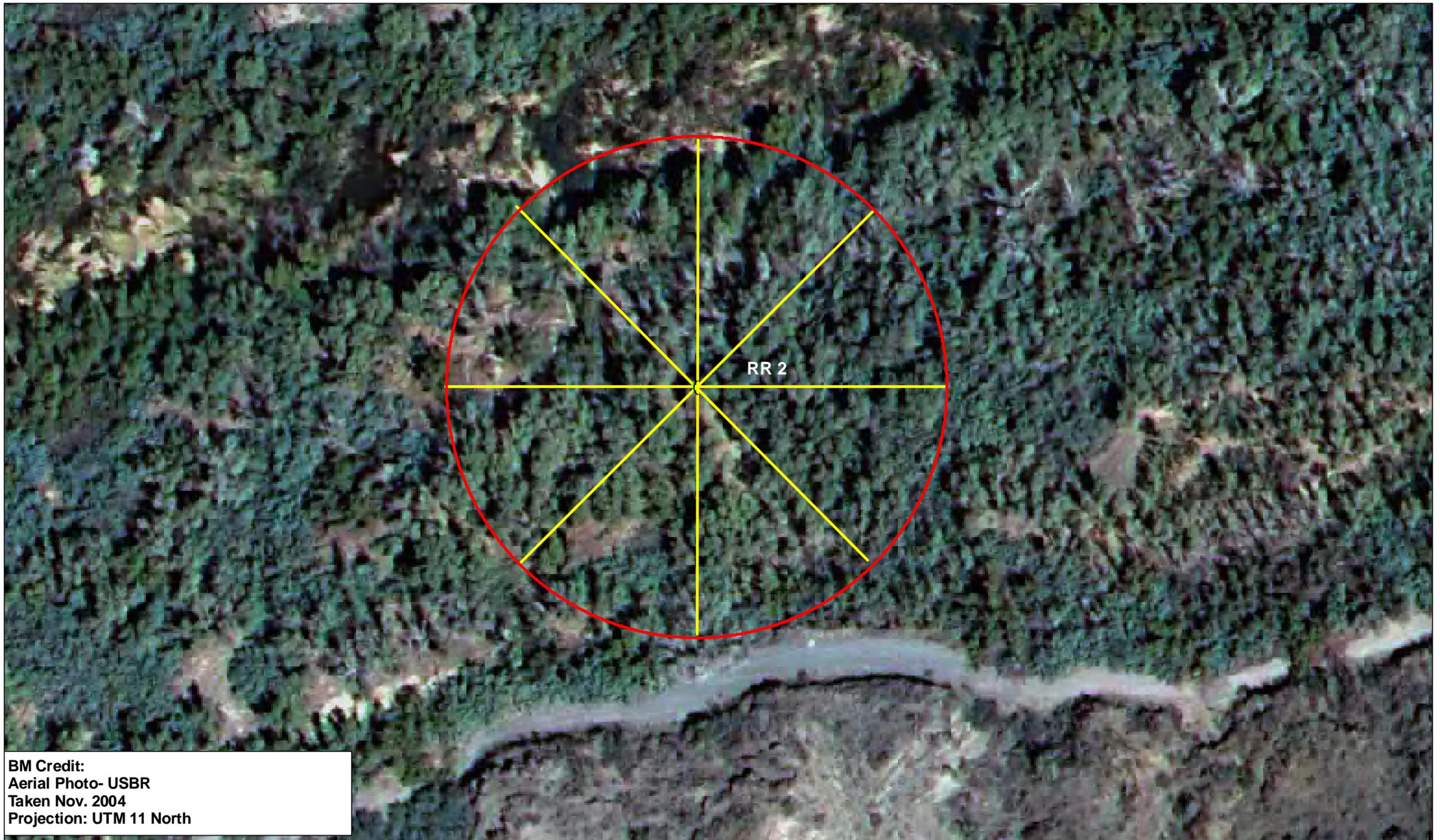
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RESEARCH AWP
GRANT NO. 08-153WPF

BWNWR Reference Riparian 4
Vegetation Mapping

May 2008



BM Credit:
Aerial Photo- USBR
Taken Nov. 2004
Projection: UTM 11 North

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RESEARCH AWP
GRANT NO. 08-153WPF

BWNWR Reference Riparian 2
Vegetation Mapping

May 2008



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**RESEARCH AWPf
GRANT NO. 08-153WPF**

**YEW Control Wetland 4
Vegetation Mapping**

May 2008

Appendix J. Vegetation Datasheets

Research AWPV Vegetation Mapping Data Sheet

Site: YEW

Date: 7/18/08

Observer (s): ~~CC~~ CC

Point Name and Number: Restored Wetland 1

Polygon: A	Polygon: B	Polygon: C	Polygon: D	Polygon: E	Polygon: F
Dominant Vegetation	Dominant Vegetation	Dominant Vegetation	Dominant Vegetation	Dominant Vegetation	Dominant Vegetation
Veg Type	Veg Type	Veg Type	Veg Type	Veg Type	Veg Type
Levee Pond	river sand	spring top	Ca. Bulrush	Sand beds	Ca. Bulrush
	shrubland	sea purslane	H	salt grass	H
	shrubland	S. deltoidea			
	<div style="border: 1px solid black; padding: 2px;">GIS</div>				
	I Channel				
gonding will	S				
	S				

Point Name and Number: Restored Wetland 2

GIS

Polygon: A	Polygon: B	Polygon: C	Polygon: D	Polygon: E	Polygon: F
Dominant Vegetation					
Veg Type					
ISG	Marsh	Open	ISG	Channel	
3-yr. Rush	Ca. Bulrush	Phrag	B. mly		
			SBW (low)		

Point Name and Number: Restored Wetland 4

GIS

Polygon: A	Polygon: B	Polygon: C	Polygon: D	Polygon: E	Polygon: F
Dominant Vegetation					
Veg Type					
Clay bank	Marsh Edge	Marsh	Ca. Bulrush		
Wetland S	Sprayed				
Wetland S	Phrag				
	SBW				

Research AWPf Total Vegetation Volume Data Collection Sheet

Sheet _____ of _____

Site: Yew Point Name and Number: RST Wet 1

Date: 7/1/08 Observer (s): MWCC

~~54N/12W~~

Plant Species Touching												
Point #	Temp (°C)	Dm Sections	Species	Cover Class	Species	Cover Class	Species	Cover Class	Species	Cover Class	Species	Cover Class
1		0-1	Duff	H								
		0-5	Spranglet	H								
		6-16	SBW	S								
2		0-2	Duff	H								
		0-3	ISG	H								
		0-8	Spranglet	H								
		0-4	Purslane	H								
		2-8	GW	S								
		17-19	GW	S								
3		0-1	Duff	H								
		0-2	ISG	H								
		10-13	GW	MC								
		14-22	GW	MC								
			GW									
4		0-1	Duff	H								
		1-4	Purslane	H								
		3-8	Spranglet	H								
5		0	0	0								
6		0-2	Duff	H								
		0-7	Spranglet	H								
7		0-5	ISG	H								
		0-2	Duff	H								
8		0	0	0								

~~335/0~~

~~58/4E~~

~~27/3W~~

~~355/6E~~

~~35/4E~~

~~335/9W~~

~~20N/36E~~

~~315/2W~~

~~48/16E~~

~~2N/69W~~

~~40N/12E~~

~~38N/57W~~

~~515/5W~~

~~155/61W~~

18' 216"

Dm (decimeter) sections go up to >6 m. Cover Classes: herb (<0.5 m), shrub (woody stems, 0- 4 m), medium canopy (4- 6 m) and tall canopy (>6 m)

Research AWP Total Vegetation Volume Data Collection Sheet

Sheet _____ of _____

Site: Yew Point Name and Number: Ros Wet 1

Date: 7/1/08 Observer (s): WV CC

			Plant Species Touching									
Point #	Temp (°C)	Dm Sections	Species	Cover Class	Species	Cover Class	Species	Cover Class	Species	Cover Class	Species	Cover Class
9		0-25	Hard Rush	S								
10		0-2	Duck	H								
		0-4	Purshove	H								
		1-4	Sprinkle	H								
11		0-5	Duck	H								
		0-7	Sprinkle	H								
		0-9	ISC	H								
		0-5	W.D	H								
12		0-2	W.D	H								
		0-1	Duck	H								
		4-6	CRush	S								
		7-9	CRush	S								
13		0-5	Phrag	H								
		1-2	Helio	H								
14		0-17	CRush	S								
15		0-31	CRush	S								

Dm (decimeter) sections go up to >6 m. Cover Classes: herb (<0.5 m), shrub (woody stems, 0- 4 m), medium canopy (4- 6 m) and tall canopy (>6 m)

Research AWP Total Vegetation Volume Data Collection Sheet

Site: Yew Point Name and Number: Res Rip 1

Date: 7/1/08 Observer (s): MLW CC Sheet 55 of 162

Point #	Temp (°C)	Dm Sections	Plant Species Touching										
			Species	Cover Class	Species	Cover Class	Species	Cover Class	Species	Cover Class	Species	Cover Class	
1		0-1	Helio	H									
		0-2	Purslane	H									
2		0-1	Dumb	H	WD	H							
3		0-1	WD	H									
4		0-1	Dumb	H									
5		0-2	BPV	S									
		6-12	BPV	S									
6		0	0	0									
7		0-1	Dumb	H	WD	H							
8		0-2	Dumb	H									
		0-13	Arrowweed	S									
9		0-1	Dumb	H									
		0-17	Arrowweed	S									
10		0-2	Dumb	H									
		0-11	Arrow weed	S									
		3-6	Phrag	H									
11		0-1	Dumb	H	WD	H							
12		0-3	Helio	H									
		1-4	Dumb	H									

54/710
~~52/42~~
~~205/562~~
~~12N/4E~~
~~275/42E~~
~~44N/62E~~
~~515/311E~~
~~46N/70E~~
~~505/290~~
~~20N/70E~~
~~40N/71E~~
~~0.5/470~~
 475/0
 24N/2E

Dm (decimeter) sections go up to >6 m. Cover Classes: herb (<0.5 m), shrub (woody stems, 0- 4 m), medium canopy (4- 6 m) and tall canopy (>6 m)

Research AWP Total Vegetation Volume Data Collection Sheet

Sheet _____ of _____

Site: Yow Point Name and Number: Res RIP 3

Date: 7/1/08 Observer (s): MLW CC

			Plant Species Touching									
Point #	Temp (°C)	Dm Sections	Species	Cover Class	Species	Cover Class	Species	Cover Class	Species	Cover Class	Species	Cover Class
1		0	0	0								
2		0-1	DWBT	H	WD	H						
		0-2	H/LP	H								
		10-42	CW	MC								
3		0-2	DWBT	H								
		0-3	WD	H								
		7-9	CW	S								
4		0	0	0								
5		0	0	0								
6		0-2	WD	H								
7		0-1	WD	H								
8		0-1	DWBT	H	WD	H						
9		0-1	DWBT	H								
10		0-1	DWBT	H								
		0-8	CW	H								
		19-24	CW	S								
11		0	0	0								
12		0-2	DWBT	H	WD	H						
		11-19	CW	S								
13		0	0	0								

575/482
~~140/110~~
~~120/310~~
~~75/150~~
~~35/100~~
~~22/130~~
~~35/70E~~
~~275/630~~
~~375/150~~
~~0/2E~~
~~140/430~~
~~405/450~~
~~120/28E~~
18N/650
155/500
35/32E

Dm (decimeter) sections go up to >6 m. Cover Classes: herb (<0.5 m), shrub (woody stems, 0-4 m), medium canopy (4-6 m) and tall canopy (>6 m)

Research AWPf Total Vegetation Volume Data Collection Sheet

Sheet _____ of _____

Site: Kew Point Name and Number: Ag 2

Date: 7/1/08 Observer (s): MLW CC

Plant Species Touching												
Point #	Temp (°C)	Dm Sections	Species	Cover Class	Species	Cover Class	Species	Cover Class	Species	Cover Class	Species	Cover Class
1		0-3	Duft	H								
2		0-2	Duft	H								
		0-4	AIF	H								
3		0-2	Duft	H								
		0-3	AIF	H								
4		0-3	Duft	H								
		0-4	AIF	H								
		0-2										
5		0-2	Duft	H								
6		0-3	Duft	H	AIF	H						
7		0-1	Duft	H								
8		0-2	Duft	H								
		0-6	AIF	H								
9		0-2	Duft	H								
		0-5	AIF	H								
10		0-2	Duft	H								
11		0-2	Duft	H								
12		0-3	Duft	H								
		0-4	AIF	H								
13		0-2	Duft	H								
		0-3	AIF	H								

Dm (decimeter) sections go up to >6 m. Cover Classes: herb (<0.5 m), shrub (woody stems, 0- 4 m), medium canopy (4- 6 m) and tall canopy (>6 m)

Handwritten notes on the right margin, including various numbers and dates such as 11/5/08, 11/10, 2/15/08, 3/16/08, 5/5/08, 3/21/08, 4/21/08, 4/5/08, 4/6/08, 12/11/08, 3/21/08, 10/11/08, and 5/15/08.

Research AWPf Total Vegetation Volume Data Collection Sheet

Site: YEU Point Name and Number: Ag 1

Date: 7/1/08 Observer (s): MW CC Sheet _____ of _____

~~16N/24E~~
~~14N/30E~~

Point #	Temp (°C)	Dm Sections	Plant Species Touching											
			Species	Cover Class	Species	Cover Class	Species	Cover Class	Species	Cover Class	Species	Cover Class		
1		0-1	DuPT	H	Alfalfa	H								
2		0-2	DuPT	H										
		0-6	Alfalfa	H										
3		0-1	DuPT	H										
		0-3	AIF	H										
4		0-3	DuPT	H	AIF	H								
5		0-1	DuPT											
		0-2	AIF											
6		0-1	DuPT	H										
		0-3	Bermuda	M										
7		0-1	DuPT	H										
		0-2	AIF	M										
8		0-1	DuPT	M	AIF	M								
		0-2	Bermuda	H										
9		0-1	DuPT											
10		0-1	DuPT	P										
		0-2	SPrangletop	M										
11		0-1	DuPT	M										
12		0-1	DuPT	M	AIF	M								

~~55/34E~~
~~56N/51W~~
~~53S/24E~~
~~42N/60E~~
~~58N/24E~~
~~26N/60E~~
~~17S/37W~~
~~37S/54E~~
~~27S/4E~~
~~44N/62E~~
~~12S/17W~~
16N/32E

Dm (decimeter) sections go up to >6 m. Cover Classes: herb (<0.5 m), shrub (woody stems, 0- 4 m), medium canopy (4- 6 m) and tall canopy (>6 m)

Research AWPf Total Vegetation Volume Data Collection Sheet

Site: Yew Point Name and Number: Ag 5

Date: 7/1/09 Observer (s): MW CC Sheet of

Plant Species Touching												
Point #	Temp (°C)	Dm Sections	Species	Cover Class	Species	Cover Class	Species	Cover Class	Species	Cover Class	Species	Cover Class
1		0-1	DWHT	H	AIF	H						
2		0-1	DWHT	H								
		0-2	AIF	L								
3		0-1	DWHT	M								
		0-2	HF	H								
4		0-1	DWHT	H								
		0-2	AIF	M								
5		0-1	DWHT	M	AIF	M						
6		0-1	DWHT	M								
		0-2	AIF	M								
7		0-1	DWHT	H	AIF	M						
8		0-1	DWHT	M								
		0-2	AIF	H								
9		0-1	DWHT	H								
		0-3	AIF	H								
10		0-1	DWHT	H								
		0-2	AIF	M								
11		0-1	DWHT	M	AIF	M						
12		0-1	DWHT	M	AIF	M						
13		0	0	0	0							

~~345/440~~
~~41/388~~
~~161/548~~
~~388/456~~
~~21/42~~
~~435/70~~
~~545/440~~
~~301/420~~
~~525/440~~
~~441/388~~
~~15/68~~
~~315/408~~
~~445/540~~
~~335/540~~

Dm (decimeter) sections go up to >6 m. Cover Classes: herb (<0.5 m), shrub (woody stems, 0- 4 m), medium canopy (4- 6 m) and tall canopy (>6 m)

Search AWP Total Vegetation Volume Data Collection Sheet

Site: Yew Point Name and Number: WITCON 3

Date: 6/30/08 Observer(s): mw cc Sheet of

95/4
401/52
2/5
575/10
401/38
301/50
451/1
75/20
201/18
181/13
175/21
561/35
535/10
561/24
235/80
195/45
321/0
215/14

Plant Species Touching													
Point #	Temp (°C)	Dm Sections	Species	Cover Class	Species	Cover Class	Species	Cover Class	Species	Cover Class	Species	Cover Class	
1		0-1	Durt	H			8	0-3	Durt	H			
		3-10	Tann	MC					3-6	Phrag	S		
2		0-2	unk	H			9	4-56	Bac Em	S			
									6-7	Phrag	S		
3		0-3	Durt	H			17-14	17-14	Bac Em	S			
		5-10	Phrag	S					14-15	Tann	S		
		15-22	Tann	S					15-20	Tann	S		
		18-56	Phrag	S					25-29	Bac Em	S		
4		0-1	Durt	H			10	11-14	Phrag	S			
		12-15	Tann	S					25-27	Phrag	S		
		15-39	Tann	S					34-36	Bac Em	S		
5		Water					9	0-3	Durt	H			
									4-56	Phrag	S		
6		0-6	Durt	H			10	11-14	Tann	MC			
		7-14	Phrag	S					15-20	Tann	S		
		15-14	SBrm	S					25-29	Bac Em	S		
		18-53	Phrag	S					25-27	Phrag	S		
7		0-1	Durt	H			11	12	Water				
		1-2	WD	H					0-1	Durt	H		
		3-11	Allow weed	S					3-28	Tann	S		
		6-7	Tann	S					13	Water			
		8-10	SBrm	S					15	Water			
		16-17	Tann	S					16	Water			
		19-24	Tann	S									
		26-27	SBrm Tann	S									

Dm (decimeter) sections go up to >6 m. Cover Classes: herb (<0.5 m), shrub (woody stems, 0- 4 m), medium canopy (4- 6 m) and tall canopy (>6 m)

Research AWP Total Vegetation Volume Data Collection Sheet

Site: Yew Point Name and Number: RIP Con 2

Date: 6/30/08 Observer (s): MC CC Sheet of

Point #	Temp (°C)	Dm Sections	Plant Species Touching									
			Species	Cover Class	Species	Cover Class	Species	Cover Class	Species	Cover Class	Species	Cover Class
1		0-1	Duff	H			5	0-1	Duff	H	WD	H
		6-10	Tann	S				3-5	Tann	S		
		11-13	Tann	S				9-10	WD	S		
		13-15	Tann	S				8-11	Tann	S		
		20-22	Tann	S				12-22	Tann	S		
		23-26	Tann	S				25-27	Tann	S		
2		0-1	Duff	H			6	0-1	Duff	H	WD	H
		0-2	WD	H				1-2	WD	H		
		4-8	WD	H				5-10	Tann	S		
		9-11	Tann	S				12-13	Tann	MC		
		15-16	Tann	S				14-21	Tann	MC		
		17-27	Tann	S				25-26	Tann	MC		
3		0-1	Duff	M			7	1-2	Duff	H	WD	H
		7-9	Tann	S				4-7	Duff	H	WD	H
		8-20	Tann	S				9-14	WD	H		
		21-26	Tann	S				15-16	Tann	S		
		27-30	Tann	S				21-22	Tann	S		
		33-34	Tann	S								
4		0-1	Duff				8	0-1	Duff	H	WD	H
	0-3	WD	WD					1-3	WD	H		
	5-9	Tann						5-7	WD	H		
	14-15	Tann						12-26	Tann	S		
		18-21	Tann				41-48	Tann	MC			

Dm (decimeter) sections go up to >6 m. Cover Classes: herb (<0.5 m), shrub (woody stems, 0- 4 m), medium canopy (4- 6 m) and tall canopy (>6 m)

Handwritten notes on the right margin, including point numbers and cover class abbreviations: 15/18, 34/32, 25/66E, 34/53, 30/57E, 18/32, 44/44, 44/44, 55/22, 44/44, 57/60, 24/54, 55/45, 3, 25/66E, 52N/266

Research AWPf Total Vegetation Volume Data Collection Sheet

Sheet _____ of _____

Site: _____ Point Name and Number: RIP CONZ

Date: _____

Observer (s): _____

		Plant Species Touching										
Point #	Temp (°C)	Dm Sections	Species	Cover Class	Species	Cover Class	Species	Cover Class	Species	Cover Class	Species	Cover Class
9		0-2	Duff	H	WD	H						
		3-6	WD	H								
		6-8	Tam	S								
		32-33	Tam	MC								
10		3-12	Arrowweed	S								
11		0-3	Duff	H								
		3-10	Arrowweed	S								
12		0-4	Duff	H								
		11-15	Tam	S								
		15-17	Tam	S								
		19-23	Tam	S								
		24-34	Tam	S								
13		0-1	Duff	H								
		2-6	WD	H								
		10-12	WD	H								
		Tam 14-16	S									
14		04	Duff	H	WD	H						
		01-7	WD	H								
		15-17	Tam	S								
		19-23	Tam	S								
		23-57	Tam	MC								
15		0-1	Duff	H								
		2-4	WD	H								
		6-7	WD	H								
		16-14	WD	S								

Dm (decimeter) sections go up to >6 m. Cover Classes: herb (<0.5 m), shrub (woody stems, 0-4 m), medium canopy (4-6 m) and tall canopy (>6 m)

Research AWP Total Vegetation Data Collection Sheet

Sheet of

Site: Yam Point Name and Number: Cam 3

Observer(s): UW CC

Plant Species Table											
Point #	Temp (°C)	Dm Sections	Species	Cover Class	Point #	Temp (°C)	Dm Sections	Species	Cover Class	Species	Cover Class
1		0-2	Veget	H	8		0-1	Duht	H		
							0-2	WD	S		
2		0-3	Duht	H			0-23	Arrow Weed	S		
		0-30	Phrag	H			23-32	Tam	S		
		0-9	Arrow Weed	H							
3		0-3	Duht	H	9		0-3	Duht	H		
							1-2	WD	S		
									S		
4		0-20	Duht	H			0-30	Tam	S		
		0-1	Duht	H							
		0-2	Arrow Weed	H	10		0-17	Duht	S	(Dead Phrag)	
							17-18	WD	S		
5		0-4	Duht	H			21-23	WD	S		
		8-10	WD	S			27-28	Tam	MC		
		12-26	WD	S			27-31	Duht	S		
		16-20	Tam	S			34-56	Tam	MC		
		20-21	Arrow Weed	S							
		22-27	Tam	S	11		0-1	Duht	H		
							2-3	WD	H		
6		0-3	Duht	H			7-8	Phrag	S		
		2-5	Tam	S			11-19	Phrag	S		
		5-14	Tam	S							
		23-32	Tam	S	12		0-12	Duht	S		
							13-16	Tam	S		
7		0-2	Duht	H			17-31	Tam	S		
		0-13	WD	S			34-48	Tam	S		
		1-3	Arrow Weed	S							
		5-6	Tam	S							
		8-14	Tam	S	13		0-7	Duht	H		
		11-13	Arrow Weed	S			2-4	Phrag	S		
		15-17	WD	S			6-8	Phrag	S		
		19-25	Arrow Weed	S			11-13	Duht	S		

Dm (decimeter) sections go up to >6 m. Cover Classes: herb (<0.5 m), shrub (woody stems, 0-4 m), canopy (4-8 m), emergent canopy (>8 m)

19-20 WD S

Research AWP Total Vegetation Volume Data Collection Sheet

Sheet _____ of _____

Site: Yew Point Name and Number: RES Rip 9

Date: 7/2/08

Observer (s): LMW CC

H5/58E

Plant Species Touching												
Point #	Temp (°C)	Dm Sections	Species	Cover Class	Species	Cover Class	Species	Cover Class	Species	Cover Class	Species	Cover Class
1		0-1	Dubt	H	CW	S	Helio	H				
		6-15	SBW	S								
		16-18	CW	S								
		27-28	SBW	S								
2												
3		WATER										
4		0-1	Dubt	H								
		1-19	Arrow	S								
		15-18	Hm	S			9	0-4	Dubt	H		
		12-18	CW	MC								
		18-20	Sonchas	H			10	0-1	Dubt	H		
		22-24	CW	MC				0-2	Helio	H		
		25-44	CW	MC				4-11	Tan	MS		
5		0-1	Dubt	H								
		7-8	QB	S			11	0-1	Dubt	H	Helio	H
6		0-2	Dubt	H								
		0-34	Phrag	S								
		15-16	Arrow	S								
		2-21	Tan	S								
		24-29	Tan	S								
		22-27	QB	S								
7		0-1	Dubt	H								
		4-8	Hm	S								
		9-13	Hm	S								

55/92E

38N/29L

45/6E

315/35E

40N/10E

15/28E

155/64E

145/6E

36N/34E

475/67E

36N/49E

14N/78E

75/8E

Dm (decimeter) sections go up to >6 m. Cover Classes: herb (<0.5 m), shrub (woody stems, 0-4 m), medium canopy (4-6 m) and tall canopy (>6 m)

5
1

Research AWPf Total Vegetation Volume Data Collection Sheet

Sheet _____ of _____

Site: Yew Point Name and Number: Wet on 2

Date: 7/7/08 Observer (s) MW CC

Point #	Temp (°C)	Dm Sections	Plant Species Touching																		
			Species	Cover Class	Species	Cover Class	Species	Cover Class	Species	Cover Class	Species	Cover Class									
1		0-5	Duht	H	(10)	0-16 Duht	H														
		0-41	Phrag	S		0-31 Cattail	S														
		6-10	WD	S																	
		20-23	Cattail	S	(11)	Water															
		43-47	WD	S	(12)	Water															
2		0-6	Duht	H																	
		0-15	Phrag	S																	
		12-14	Cattail	S	(13)	0-14 Duht	H														
		19-20	Cattail	S		0-30 Cattail	S														
3			Water		(14)	Duht	H														
4			Water																		
5		0-15	Duht	H	(15)	0-14 Duht	H														
		0-37	Cattail	S		0-15 Alabane	S														
6		0-22	Duht	H		16-22 Cattail	S														
		0-52	Cattail	S																	
7			Water																		
8		0-4	Algae	H																	
		7-8	Duht	H																	
		13-14	Duht	H																	
		0-31	Cattail	S																	
9		0-13	Duht	H																	
		0-32	Cattail	S																	

Dm (decimeter) sections go up to >6 m. Cover Classes: herb (<0.5 m), shrub (woody stems, 0- 4 m), medium canopy (4- 6 m) and tall canopy (>6 m)

Research AWP Total Vegetation Volume Data Collection Sheet

Sheet _____ of _____

Site: Law Point Name and Number: Wet con 4

Date: 7/2/08 Observer (s): UMW CC

Plant Species Touching												
Point #	Temp (°C)	Dm Sections	Species	Cover Class	Species	Cover Class	Species	Cover Class	Species	Cover Class	Species	Cover Class
1		0-1	Duft	H			(10)	0-19	Duft	H+S		
		0-3	WD	H				0-14	Phrag	S		
		3-23	Arrow	S			(11)	17-22	Phrag	S		
		18-20	SBU	S				17-18	Cattail	S		
								23-25	Cattail	S		
2		0-12	Duft	H			(12)	0-13	Duft	H		
		0-21	Cattail	S				0-20	Phrag	S		
3		0-16	Duft	H				16-18	SBU	S		
		0-23	Cattail	S				20-36	SBU	S		
		14-23	Phrag	S			(13)	0-14	Duft	H+S		
4		0-12	Duft	H				0-21	Phrag	S		
		0-19	Cattail	S				23-25	Phrag	S		
5		0-18						18-43	SBU	S		
		0-18	Duft	H				44-47	Phrag	S		
		24-27	Duft	S				25-29	Duft	S		
		0-27	Cattail	S			(14)	0-19	Duft	H+S		
6		0-14	Duft	H				0-33	Cattail	S		
		0-1	Fleabane	H				23-25	Duft	S		
		0-14	Phrag	S			(15)	0-10	Duft	H		
		0-17	Cattail	S				0-20	Phrag	S		
7		Water					(16)	1-10	Duft	H+S		
8		Water						10-22	WD	S		
9		0-23	Duft	H+S				24-43	Arrowweed	S		
		0-35	Phrag	S				30-50	Tam	S		
		35-36	Duft	S								
		0-29	Arrowweed	S								

Dm (decimeter) sections go up to >6 m. Cover Classes: herb (<0.5 m), shrub (woody stems, 0- 4 m), medium canopy (4- 6 m) and tall canopy (>6 m)

30-35 Tam S

Research AWP Total Vegetation Volume Data Collection Sheet

Sheet _____ of _____

Site: Yew Point Name and Number: Ros Wet 4

Date: 7/3/08 Observer (s): MMW CC

			Plant Species Touching									
Point #	Temp (°C)	Dm Sections	Species	Cover Class	Species	Cover Class	Species	Cover Class	Species	Cover Class	Species	Cover Class
1		0-3	Duab	H			(10)	0-15	Duab	H+S		
		0-6	TS Co	H				0-22	Bulrush	S		
		0-7	SPrangletop	H					CA			
		0-10	AKrush	H								
		8-10	CA Bulrush	S			(11)	0-22	Duab	H+S		
2		0-3	Duab	H				0-20	CArush	S		
		0-8	SPrangletop	H			(12)	0-14	Duab	H		
3		2-5	SPrangletop	H				0-20	CArush	S		
		7-9	SPrangletop	X1			(13)	0-18	Duab	H+S		
4		0-1	Duab	H				0-23	CArush			
		3-6	Duab	H			(14)	0-30	Duab	H+S		
		4-8	SPrangletop	H				0-17	CArush	S		
		0-17	CArush	S			(15)	0-13	Duab	H+S		
5		0-6	Duab	H				4-5	CArush	S		
		0-16	Bulrush	H				13-17	CArush	S		
6		0-6	Duab	H				0-17	SBw	S		
		0-10	Bulrush	S				0-2	Phrag	H		
7		0-15	Duab	H+S				0-4	Phrag	H		
		0-17	Bulrush	S				0-5	SPrangletop	H		
		0-14	Duab	H+S								
8		0-22	Bulrush	S								
		0-11	Duab	H								
9		0-22	Bulrush	S								

Dm (decimeter) sections go up to >6 m. Cover Classes: herb (<0.5 m), shrub (woody stems, 0-4 m), medium canopy (4-6 m) and tall canopy (>6 m)

Research AWP Total Vegetation Volume Data Collection Sheet

Site: Yew Point Name and Number: Res wet 2

Date: 7/10/08 Observer (s): mw cc Sheet of

Plant Species Touching												
Point #	Temp (°C)	Dm Sections	Species	Cover Class	Species	Cover Class	Species	Cover Class	Species	Cover Class	Species	Cover Class
1		0-4	Duff	H			④	0-11	Duff	H		
		0-5	ISG	H				0-6	ISG	H		
2		0-2	Duff	H				4-5	SPREADTOP	H		
		0-16	CA RUSH	S				0-19	CA RUSH	H		
3		0-1	Duff	H+S	0-16		⑩	0-3	Duff	H		
		0-2	CA RUSH	S				5-6	ISG	H		
		0-1	Duff	S				2-15	SBW	S		
		23-24	Duff	S				0-5	Purslane	H		
4		0-1	Duff	H			⑪	Water				
		0-1	WD	H			⑫	Water				
5		0-18	Duff	H+S			⑬	0-10	Duff	H		
		13-21	Phrag	S				0-6	ISG	H		
		0-26	CA RUSH	S				0-11	2 SG	H		
		22-28	CATTAIL	S				7-13	CA RUSH	S		
6		0-9	Duff	H				0-8	AIK RUSH	H		
		6-15	Phrag	S			⑭	0-18	Duff	H		
		12-18	GL	S				0-25	CA RUSH	H		
		8-9	CATTAIL	S								
		11-12	CATTAIL	S								
7		4-18	Duff	H+S			⑮	0-2	Duff	H		
		11-12	Phrag	S				0-6	ISG	H		
		0-30	CATTAIL	S				0-5	Yuba man.	H		
8		0-24	Duff	H+S								
		0-26	CA RUSH	S								

Dm (decimeter) sections go up to >6 m. Cover Classes: herb (<0.5 m), shrub (woody stems, 0-4 m), medium canopy (4-6 m) and tall canopy (>6 m)

POE

Research AWP Total Vegetation Volume Data Collection Sheet
 Site: WUW Point Name and Number: Post Ridge 5 Date: 6/27/05 Observer(s): luc Sheet CC of

Point #	Temp (°C)	Dm Sections	Species	Cover Class	Plant Species Touching						
					Species	Cover Class	Percent Species	Cover Class	Dm Sections	Cover Class	Species	Cover Class
1		0-1	Duff	H			5		0-1	Duff	H
		3-4	Duff	H	Phrag	S			0-5	Phrag	H
		7-9	Phrag	S							
		1-3	Almond	H			6		3K-42	CW	TMC
		6-7	Almond	S							
2		0-2	Duff	H			7		Pine		
		2+5	WD	H			8		0-2	Duff	H
		5-6	Phrag	S					0-1	Duff	H
		10-11	Phrag	S			9				
		22-48	SBR	S							
3		0-2	Duff	H			10		0-1	Duff	H
		4-5	WD	H			11		0-1	Duff/WD	H
		6-30	Almond	S					7-12	Tan	S
		9-11	Tan	S					13-25	Tan	S
		12-16	Duff Tan	S					28-29	Tan	S
4		14-15	Phrag	S					30-35	Tan	S
		35-44	Tan	S							
		0-1	Duff	H			12		0-1	Duff	H
		0-4	Phrag	H					23-24	WD	T-Tc
		11-12	Phrag	H					25-60	WD	T-Tc
		13-15	Phrag	H					0-1	WD	T-Tc
		15-29	SBR	TMC			13		Duff 0-1	Duff	H
		28-30	SBR	TMC					0-1	WD	
		33-44	SBR	TMC			14		0-1	Duff	H
									0-4	CW/WD	H

Dm (decimeter) sections go up to >6 m. Cover Classes: herb (<0.5 m), shrub (woody stems, 0-4 m), medium canopy (4-6 m) and tall canopy (>6 m)

Research AWP/ Total Vegetation Volume Data Collection Sheet

Site: Point Name and Number: Res P10 3 Date: 6/27/08 Observer (s): lmc CC Sheet: of

Handwritten note: DMB

Point #	Temp (°C)	Dm Sections	Species	Cover Class	Dist Plant Species Touching										
					Species	Dist. Section	Cover Class	Species	Cover Class	Species	Cover Class				
1		0													
2		0-1	Durt	H		0-1		Durt	H						
		11-14	Horn	S		5-6		Durt	H						
		15-17	Horn	S		4-6		Tan	H						
		20-21	Horn	S		9-10		Durt	H						
		27-31	CW	S		10-12		Tan	S						
		34-36	CW	TWC		13-14		Tan	S						
3		10-60	CW	TC		14-34		Tan	S						
		Overstory	CW	TC		0-6		Durt	H						
		0-3	Durt	H		1-3		CW	TC						
		0-8	Phrag	S		5-8		WD	S						
4		Overstory	CW	TC		6-7		CW	TC						
		0-1	Durt	H		10-12		WD	S						
		0-5	Phrag	H		13-16		Bac sat	S						
		1-3	Tan	H		13-15		Bac sat	S						
5		5-8	Tan	H		17-22		CW	TC						
		0-4	Durt	H		25-27		Phrag	S						
		6-9	Phrag	S		34-60		CW	TC						
		10-12	Phrag	S		Overstory		CW	TC						
		16-18	CW	TWC		0-1		Durt	H						
		17-22	Phrag	S		1-2		Asclepas	H						
6		19-22	CW	TWC		10-14		SBL	S						
		23-60	CW	TC		0-1		Durt	H						
		Overstory	CW	TC		Overstory		CW	TC						

Dm (decimeter) sections go up to >6 m. Cover Classes: herb (<0.5 m), shrub (woody stems, 0-4 m), medium canopy (4-6 m) and tall canopy (>6 m)

9903

Research AWP Total Vegetation Volume Data Collection Sheet

Site: YUV Point Name and Number: Res Rip 23 Date: 6/22/08 Observer (s): MJP:ac Sheet of

Point #	Temp (C)	Dm Sections	Species	Cover Class	Plant Species Touching			
					Species	Cover Class	Species	Cover Class
10		0-1	Phyt	H				
		14-20	GW	S				
		24-44	GW	TC				
		57-60	GW	TC				
		Overstory	GW	TC				
11		0-1	Phyt	H				
		0-15	Phyt	S				
		40-40	GW	TC				
		Overstory	GW	TC				
12		0-12	Phyt	H				
		0-13	Phyt	S				
		26-27	Phyt	S				
13		6-7	Phyt	S				
		9-1	Phyt	H				
		12-13	Phyt	S				
		14-15	Phyt	S				
14		0-1	Phyt	H				
		14-14	GW	S				
		16-47	SBW	S				
15		0-1	Phyt	H				
		0-5	Phyt	H				
		14-18	GW	S				
		20-21	GW	S				
		21-23	SBW	TM				
		22-24	GW	S				
		27-31	GW	S				
		42-44	GW	S				

Dm (decimeter) sections go up to >6 m. Cover Classes: herb (<0.5 m), shrub (woody stems, 0-4 m), medium canopy (4-6 m) and tall canopy (>6 m)

TB 099228-0

Research AWP Total Vegetation Volume Data Collection Sheet

Site: YV00

Point Name and Number: Res Rip 010

Date: 10/27/00

Observer (s): AM

Sheet of

Point #	Temp (C)	Dim Sections	Species	Cover Class	Plant Species Touching			Cover Class	Species	Cover Class	Species	Cover Class
					Species	Cover Class	Species					
11		0-1 22-25	<i>Dist</i> <i>Tann</i>	H S								
12		0	0	0								
13		0-1	<i>LD</i>	H								
		2-8	<i>Occ Sal</i>	S								
		12-15	<i>LD</i>	S								
		16-17	<i>LD</i>	S								
		19-22	<i>LD</i>	S								
14		28-38	<i>SB w</i>	S								
		40-42	<i>SB w</i>	S								
		0-1	<i>Dist</i>	H								
15		2-4	<i>Metastela</i>	S								
		5-21	<i>SB w</i>	S								
		0-1	<i>Dist</i>	H								
		9-12	<i>Tann</i>	H								
		10-11	<i>H w</i>	TMC								
		16-22	<i>H w</i>	TMC								
		33-35	<i>H w</i>	TMC								
		36-37	<i>H w</i>	TMC								

Dim (decimeter) sections go up to >6 m. Cover Classes: herb (<0.5 m), shrub (woody stems, 0-4 m), medium canopy (4-6 m) and tall canopy (>6 m)

Appendix K. Invertebrate Database

Invert database 2007-2008

Insecta

Blatteria

Blattellidae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNR	Reference Wetland 3	Arthropoda	Insecta	Blatteria	Blattellidae		Species 1		pinned	1	2122	1	7/18/2008	malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Blatteria	Blattellidae		Species 1		pinned	1	2041	11	7/8/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Blatteria	Blattellidae		Species 1		Pinned	1	594	1	7/3/2007	
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Blatteria 1	Blattellidae		Species 1		none			1	9/21/2008	malaise
YEW	Mature Restored Rip. 3	Arthropoda	Insecta	Blatteria 2	Blattellidae		Species 1		pinned	1	2042	1	7/8/2008	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Blatteria 3	Blattellidae		Species 2		Pinned	1	1849	1	39554	Pit Trap
YEW	Adjacent Ag 2	Arthropoda	Insecta	Blatteria 4	Blattellidae		Species 2		none			11	9/24/2008	uv
YEW	Riparian Control 2	Arthropoda	Insecta	Blatteria 5	Blattellidae		Species 2		Pinned	1	1855	1	39554	Pit Trap
YEW	Control Wetland 3	Arthropoda	Insecta	Blatteria	Blattellidae		Species 2		Pinned	1	1192	1	9/14/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Blateria	Blattellidae		Species 2		pinned	1	1192	1	9/13/2007	UV Light

Blattidae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Blatteria	Blattidae		Species 3		pinned	1	2021	1		pit trap

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNR	Reference Wetland 5	Arthropoda	Insecta	Blatteria 1					pinned	1	2222	1	10/8/2008	spot

Coleoptera

Alticini

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Adjacent Ag 5	Arthropoda	Insecta	Coleoptera 2	Alticini		Species 1		Pinned		1616	1	5/13/2007	Spot

Anthribidae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Coleoptera	Anthribidae				ETOH	3	1267	3	9/17/2007	Spot

Bostrichidae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 7	Bostrichidae		Species 1		Pinned	2	144- 145	2	6/29/2007	
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 2	Bostrichidae		Species 1		Pinned	1	160	11	6/29/2007	
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 8	Bostrichidae		Species 1		Pinned	1	585	1	7/3/2007	
YEW	Adjacent Ag 5	Arthropoda	Insecta	Coleoptera 1	Bostrichidae		Species 1		Pinned	1	1318	2	9/18/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera 2	Bostrichidae		Species 1		Pinned	1	1352	6	9/18/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera8	Bostrichidae		Species 1		pinned	2 of 2	2150	1	7/8/2008	uv

Buprestidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Coleoptera 3	Buprestidae	Polycestinae	Acmaeodera			pinned		2200	1	9/23/2008	spot
YEW	Control Riparian 5	Arthropoda	Insecta	Coleoptera 3	Buprestidae	Polycestinae	Acmaeodera			Pinned	1	766	1	7/9/2007	

Carabidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera 3	Carabidae			Species 1		Pinned		1899	1	5/11/2007	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Coleoptera 1	Carabidae			Species 1		Pinned	2	943- 944	4	9/11/2007	UV Light
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Coleoptera 1	Carabidae			Species 1		Pinned	3	733- 735	3	7/2/2007	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Coleoptera 2	Carabidae			Species 1		Pinned	1	736	1	7/2/2007	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Coleoptera 2	Carabidae			Species 1		pinned		1896, 1898	2	5/9/2007	
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 2	Carabidae			Species 2		2 pinned		1900, 1901	3	5/12/2007	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Coleoptera 3	Carabidae			Species 4		Pinned	1	738	3	7/2/2007	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 5	Carabidae			Species 4		Pinned	2	141- 142	2	6/29/2007	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera 6	Carabidae			Species 4		Pinned	1	203	1	6/28/2007	
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 4	Carabidae			Species 4		Pinned	3	575, 576	11	7/3/2007	
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 4	Carabidae			Species 4		Pinned	3	257, 258, 259	11	7/3/2007	
YEW	Adjacent Ag 2	Arthropoda	Insecta	Coleoptera 1	Scarabaeidae			Species 2		none			150	9/24/2008	uv
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 3	Scarabaeidae			Species 2		none			11	9/22/2008	uv
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 4	Scarabaeidae			Species 2		none			35	9/20/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 8	Carabidae			Species 4		Pinned		1902,	1	5/13/2007	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera 7	Carabidae			Species 4		Pinned	2	696- 697	11	7/1/2007	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera6	Carabidae					none			11	7/17/2008	uv
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Coleoptera3	Carabidae					none			11	7/18/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera8	Carabidae					none			11	7/9/2008	uv
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera6	Carabidae					none			35	7/8/2008	uv
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 12	Carabidae					none			1	9/21/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 4	Carabidae			Species 5		Pinned	3	574,	11	7/3/2007	
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 7	Carabidae			Species 5		Pinned	3	265	11	7/3/2007	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coloeptera 7	Carabidae			Species 4		Pinned	2	696	11	7/1/2007	
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 9	Carabidae					Pinned		1588	1	5/12/2007	UV light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 4	Carabidae					pinned		1945-1946	2	5/13/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera 5	Carabidae					Pinned	1	1889	1	5/7/2008	uv
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 7	Carabidae					Pinned		1903	1	5/12/2007	UV Light

Cantharidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 1	Cantharidae			Species 1		Pinned	5	125- 129	11	6/29/2007	
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 1	Cantharidae			Species 1		Pinned	3	157-159	11	6/29/2007	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 5	Cantharidae			Species 1		2 pinned		1611, 1612	23	5/12/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 1	Cantharidae			Species 1		Pinned	1	1151	1	9/14/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 4	Cantharidae			Species 1		none			1	5/7/2008	uv
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 1	Cantharidae			Species 1		none			21	5/6/2008	UV
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera 4	Cantharidae			Species 1		Pinned	2	193- 194	11	6/28/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 1	Cantharidae			Species 1		Pinned	2	216- 217	11	6/28/2007	

YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 1	Cantharidae			Species 1		Pinned	2	252- 253	35	7/3/2007	
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 1	Cantharidae			Species 1		Pinned	3	565- 567	11	7/3/2007	
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera1	Cantharidae			Species 1		none			1	7/10/2008	uv
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera4	Cantharidae			Species 1		none			11	7/10/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera9	Cantharidae			Species 1		none			11	7/9/2008	uv
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Coleoptera2	Cantharidae			Species 1		none			11	7/18/2008	uv
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera5	Cantharidae			Species 1		none			11	7/8/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera9	Cantharidae			Species 1		none			11	7/8/2008	uv
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera 3	Cantharidae			Species 1		Pinned	2	685- 686	35	7/1/2007	
YEW	Adjacent Ag 2	Arthropoda	Insecta	Coleoptera 9	Cantharidae			Species 1		none			11	9/24/2008	uv
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 8	Cantharidae			Species 1		Pinned		1621	1	5/12/2007	UV light

Cerambycidae

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 7	Cerambycidae			Species 1		Pinned	1	555	1	7/6/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 2	Cerambycidae			Species 1		pinned	1	2233	1	9/19/2008	spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 4	Cerambycidae			Species 1		pinned	1	1882	1	5/7/2008	spot

Chrysomelidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera 1	Chrysomelidae			Species 1		Pinned		1604	1	5/11/2007	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera20	Chrysomelidae			Species 1		none			11	7/17/2008	spot
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera 10	Chrysomelidae			Species 1		Pinned		1600-1603	4	5/11/2007	Spot
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Coleoptera 3	Chrysomelidae			Species 1		Pinned		1609-1610	2	5/11/2007	Spot
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Coleoptera	Chrysomelidae			Species 1		Pinned	2	494- 495	2	7/1/2007	
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 3	Chrysomelidae	Bruchinae		Species 2		Pinned	1	1131	29	9/13/2007	UV Light
YEW	Restored Wetland 2	Arthropoda	Insecta	Coleoptera 1	Chrysomelidae	Bruchinae		Species 2		none			11	9/20/2008	malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 1	Chrysomelidae	Bruchinae		Species 2		none			1	9/22/2008	malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Coleoptera 1	Chrysomelidae	Bruchinae		Species 2		none			11	9/23/2008	malaise
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 1	Chrysomelidae	Bruchinae		Species 2		none			11	9/21/2008	malaise
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 1	Chrysomelidae	Bruchinae		Species 2		none			1	9/21/2008	spot
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 1	Chrysomelidae	Bruchinae		Species 2		none			11	9/21/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 1	Chrysomelidae	Bruchinae		Species 2		none			1	9/19/2008	malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Coleoptera 1	Chrysomelidae	Bruchinae		Species 2		none			11	9/24/2008	malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Coleoptera 2	Chrysomelidae	Bruchinae		Species 2		none			1	9/21/2008	malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Coleoptera 4	Chrysomelidae	Bruchinae		Species 2		none			11	9/19/2008	malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Coleoptera 8	Chrysomelidae	Bruchinae		Species 2		none			11	9/24/2008	uv
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera 1	Chrysomelidae	Bruchinae		Species 2		none			1	9/24/2008	malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Coleoptera 2	Chrysomelidae	Bruchinae		Species 2		None			23	9/17/2007	Malaise
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Coleoptera	Chrysomelidae	Bruchinae		Species 3		Pinned	2	366	4	7/1/2007	

Cicindelidae

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera	Cicindelidae		Cicindela	tenuisignata		Pinned	1	392	1	7/4/2007	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera	Cicindelidae		Cicindela	tenuisignata		Pinned	1	166	1	6/28/2007	

YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera	Cicindelidae		Cicindela	tenuisignata		Pinned		1618	2	5/12/2007	UV light
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Coleoptera	Cicindelidae			Species 2		Pinned	1	942	1	9/11/2007	UV Light
YEW	Restored Wetland 2	Arthropoda	Insecta	Coleoptera	Cicindelidae			Species 4		Pinned	1	629	1	7/4/2007	
YEW	Restored Wetland 2	Arthropoda	Insecta	Coleoptera 1	Cicindelidae			Species 4		Pinned	1	1331	1	9/14/2007	Spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Coleoptera	Cicindelidae			Species 4		none			1	7/11/2008	spot

Cleridae

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 3	Cleridae		Enoclerus	quadriguttatus		pinned	1	2244	1	9/22/2008	uv

Coccinellidae

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Coleoptera	Coccinellidae			Species 1		Pinned	1	737	1	7/2/2007	
YEW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera	Coccinellidae			Species 1		Pinned		1596, 1595	2		
BWNWR	Reference Riparian 4	Arthropoda	Insecta	Coleoptera 4	Coccinellidae			Species 1		none			1	10/9/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 5	Coccinellidae			Species 1		none			1	9/19/2008	uv
YEW	Adjacent Ag 2	Arthropoda	Insecta	Coleoptera 13	Coccinellidae			Species 1						9/24/2008	uv
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera 9	Coccinellidae			Species 1		none			1	7/8/2008	uv
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Coleoptera 1	Coccinellidae			Species 1		none			1	7/18/2008	malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Coleoptera 1	Coccinellidae			Species 1		none			1	7/18/2008	uv
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Coleoptera 2	Coccinellidae			Species 2		Pinned		1606-1608	3	5/11/2007	
YEW	Adjacent Ag 2	Arthropoda	Insecta	Coleoptera	Coccinellidae			Species 3		Pinned	1	427	1	6/30/2007	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera	Coccinellidae			Species 3		Pinned		1623-1625	3	5/13/2007	
YEW	Adjacent Ag 5	Arthropoda	Insecta	Coleoptera	Coccinellidae			Species 3		Pinned		1614, 1615	2	5/13/2007	
YEW	Control Wetland 2	Arthropoda	Insecta	Coleoptera	Coccinellidae			Species 3		Pinned	1	486	1	7/10/2007	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera	Coccinellidae			Species 3		Pinned	1	611	1	6/30/2007	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera 1	Coccinellidae			Species 4		pinned	1	2003	2	5/15/2008	uv
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera 3	Coccinellidae			Species 4		none			1	7/17/2008	uv
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera	Coccinellidae			Species 4		Pinned	2	687-688	2	7/1/2007	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera	Coccinellidae			Species 5		Pinned		1605	1	5/11/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera	Coccinellidae 2			Species 6		Pinned	1	215	1	6/28/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera	Coccinellidae			Species 6		none			1	5/7/2008	uv
BW NWR	Ref. Rip 2	Arthropoda	Insecta	Coleoptera	Coccinellidae		Coleomegilla	macalata		pinned	1	1999	1	05/13-15/2008	
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 1	Coccinellidae		Coleomegilla	macalata		pinned		2188		9/20/2008	spot
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera	Coccinellidae					Pinned	1	578	1	7/3/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera	Coccinellidae 1					Pinned	1	214	1	6/28/2007	
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Coleoptera	Coccinellidae					pinned	1	1998	2	5/15/2008	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Coleoptera	Coccinellidae					none			1	5/15/2008	Malaise

Curculionidae

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 4	Curculionidae	Scolytinae		Species 1		Pinned	1	1223	3	9/14/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 8	Curculionidae	Scolytinae		Species 1		none			1	9/21/2008	uv
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 2	Curculionidae	Scolytinae		Species 1		pinned	1	1399	2	5/5/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 3	Curculionidae	Scolytinae		Species 1		none			2	5/5/2008	uv

YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera6	Curculionidae	Scolytinae		Species 2		pinned	1	2069	1	7/9/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 10	Curculionidae	Scolytinae		Species 2		pinned	1	2211	1	9/19/2008	uv
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Coleoptera 1	Curculionidae			Species 1		Pinned	1	1174	33	9/13/2007	Malaise
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 1	Curculionidae			Species 1		Pinned	2	1046-1047	35	9/13/2007	Malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera3	Curculionidae			Species 1		none			11	7/10/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera	Curculionidae			Species 1		Pinned	1	1205	21	9/13/2007	UV Light
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Coleoptera 4	Curculionidae			Species 1		Pinned		1594	1	5/11/2007	Spot
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 11	Curculionidae			Species 1		pinned	1	2212	1	9/19/2008	uv
BWNWR	Reference Wetland 14	Arthropoda	Insecta	Coleoptera	Curculionidae			Species 2		Pinned	3	1859-1861	3	4/12/2008	Pit Trap
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Coleoptera	Curculionidae			Species 3		Pinned	2	1842-1843	2	4/16/2008	Pit Trap
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Coleoptera2	Curculionidae			Species 4		pinned	1	2095	1	7/7/2008	spot
YEW	Control Riparian 5	Arthropoda	Insecta	Coleoptera	Curculionidae			Species 4		pinned	1	2103	1	7/14/2008	malaise
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Coleoptera	Curculionidae					ETOH	11	372	11	7/5/2007	

Eloteridae

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera	Elateridae			Species 1		Pinned	1	683	1	7/1/2007	
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera	Elateridae			Species 2		Pinned	1	577	1	7/3/2007	
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 2	Elateridae			Species 2		Pinned		1633	35	5/14/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 5	Elateridae			Species 2		Pinned		1635	1	5/13/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera	Elateridae			Species 2		Pinned	1	117	1	6/29/2007	
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Coleoptera	Elateridae			Species 2		none			110	5/5/2008	malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera	Elateridae			Species 2		Pinned	1	251	1	7/3/2007	
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Coleoptera2	Elateridae			Species 4		pinned	1	2142	1	7/7/2008	spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Coleoptera	Elateridae			Species 4		pinned	1	2136	1	7/10/2008	malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera 6	Elateridae			Species 5		Pinned		1632	1	5/13/2007	Spot
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera 6	Elateridae			Species 6		Pinned	1	695	11	7/1/2007	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera2	Elateridae			Species 6		none			1	7/17/2008	malaise
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 13	Elateridae			Species 6		none			11	9/21/2208	uv
BWNWR	Reference Riparian 4	Arthropoda	Insecta	Coleoptera 3	Elateridae			Species 6		none			1	10/9/2008	uv
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 5	Elateridae			Species 6		none			11	9/20/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 8	Elateridae			Species 6		none			11	9/22/2008	uv
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera2	Elateridae			Species 6		none			35	7/17/2008	uv
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera3	Elateridae			Species 6		none			11	7/9/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera3	Elateridae			Species 6		none			35	7/9/2008	uv
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Coleoptera1	Elateridae			Species 6		none			11	7/17/2008	malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera4	Elateridae			Species 6		none			11	7/8/2008	uv
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 2	Elateridae			Species 6		Pinned	2	254- 255	11	7/3/2007	
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 4	Elateridae			Species 6		Pinned		1634	11	5/14/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 3	Elateridae			Species 6		none			2	5/5/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 4	Elateridae			Species 6		Pinned	1	1207	8	9/13/2007	UV Light
YEW	Adjacent Ag 2	Arthropoda	Insecta	Coleoptera 3	Elateridae			Species 6		none			11	9/24/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 2	Elateridae			Species 6		Pinned	1	1155	7	9/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 3	Elateridae			Species 6		Pinned	4	570- 573	11	7/3/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 4	Elateridae			Species 6		Pinned	2	220- 221	11	6/28/2007	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera 3	Elateridae			Species 6		Pinned	3	190- 192	11	6/28/2007	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 5	Elateridae			Species 6		none			1	5/17& 5/19/08	Pit Trap

YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Coleoptera 2	Elateridae			Species 6		none			7		pit trap
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera 2	Elateridae			Species 6		none			4	5/21/2008	uv
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Coleoptera 1	Elateridae			Species 6		none			1	5/15/2008	UV
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 2	Elateridae			Species 6		Pinned	3	130- 132	11	6/29/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 3	Elateridae			Species 6		none			11	7/8/2008	uv
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 4	Elateridae			Species 6		none			10	5/6/2008	UV
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 3	Elateridae			Species 7		Pinned	1	161	1	6/29/2007	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera 4	Elateridae			Species 8		Pinned	1	693	1	7/1/2007	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera 6	Elateridae			Species 8		Pinned		1638-1639	2	5/11/2007	UV Light
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 3	Elateridae			Species 8		3 Pinned		1640-1642	7	5/12/2007	UV light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera 5	Elateridae			Species 8		3 Pinned		1629-1631	5	5/13/2007	Spot
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 6	Elateridae			Species 8		Pinned		1636- 1637	2	5/12/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera 3	Elateridae			Species 8		Pinned	1	905	6	9/9/2007	UV Light
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 2	Elateridae			Species 8		Pinned	1	1126	1	9/13/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera 2	Elateridae					Pinned	2	175- 176,	11	6/28/2007	
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 7	Elateridae					none			11	9/20/2008	uv
		Arthropoda	Insecta	Coleoptera4	Elateridae					none			11	7/17/2008	uv
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera	Elateridae					none			8	5/7/2008	uv
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera1	Elateridae					none			76	7/17/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 6	Elateridae					none			11	9/19/2008	uv

Eucnemidae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 3	Eucnemidae? (Elateridae)		Species 3		Pinned	1	1206	2	9/13/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera8	Eucnemidae? (Elateridae)		Species 3		none			1	7/8/2008	uv
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera 2	Eucnemidae? (Elateridae)		Species 3		Pinned	1	651	1	7/1/2007	

Gyrinidae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 2	Gyrinidae		Species 1		pinned	1 of 2	2235	11	9/21/2008	uv
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 2	Gyrinidae		Species 1		pinned	2 of 2	2236	11	9/21/2008	uv
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 2	Gyrinidae		Species 1		pinned		2203	1	9/20/2008	uv
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 3	Gyrinidae		Species 1		pinned		2204	150	9/20/2008	uv
YEW	Adjacent Ag 2	Arthropoda	Insecta	Coleoptera 7	Gyrinidae		Species 1		none			35	9/24/2008	uv

Hybosoridae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera	Hybosoridae				Pinned	2	249	2	7/3/2007	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 7	Hybosoridae				none			1	9/21/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 2	Hybosoridae				Pinned	1	569	1	7/3/2007	
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera	Hybosoridae				Pinned	2	250	2	7/3/2007	
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 5	Hybosoridae				Pinned	1	1224	7	9/14/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 10	Hybosoridae				Pinned		1597- 1598	2	5/13/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 4	Hybosoridae				Pinned	3	138- 140	11	6/29/2007	

YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 5	Hybosoridae					pinned		1619, 1620	2	5/12/2007	UV light
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Hydrophilidae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 5	Hydrophilidae				Pinned	3	579- 581	11	7/3/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera	Hydrophilidae				Pinned	1	1204	6	9/13/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 10	Hydrophilidae				none			11	9/21/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 2	Hydrophilidae				none			11	9/22/2008	uv
YEW	Adjacent Ag 2	Arthropoda	Insecta	Coleoptera 4	Hydrophilidae				none			35	9/24/2008	uv
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 6	Hydrophilidae				Pinned	1	262	1	7/3/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 3	Hydrophilidae				none			1	5/7/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera5	Hydrophilidae				none			11	7/9/2008	uv
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera2	Hydrophilidae				none			35	7/8/2008	uv
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera2	Hydrophilidae				none			11	7/9/2008	uv
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera3	Hydrophilidae				none			11	7/10/2008	uv

Lampyridae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Riparian 2	Arthropoda	Insecta	Coleoptera3	Lampyridae				pinned	1	1897	1	5/11/2007	spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera4	Lampyridae				none			11	7/8/2008	uv

Meloidae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Wetland 14	Arthropoda	Insecta	Coleoptera	Meloidae		Cysteodemus wislizeni		Pinned	3	1859-1861	3	4/12/2008	Pit Trap

Melyridae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Adjacent Ag 5	Arthropoda	Insecta	Coleoptera 3	Melyridae	Collops	sp.		Pinned	1	212	1	6/30/2007	
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Coleoptera 2	Melyridae	Collops	sp.		none			1	9/23/2008	spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Coleoptera 1	Melyridae	Collops	sp.		Pinned	1	428	1	6/30/2007	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera 10	Melyridae	Collops	sp.		Pinned	1	606	1	6/30/2007	
YEW	Adjacent Ag 2	Arthropoda	Insecta	Coleoptera1	Melyridae	Collops	sp.		none			1	7/18/2008	spot
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Coleoptera 1	Melyridae	Collops	sp.		Pinned	1	1274	1	9/17/2007	Spot

Mordellidae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Wetland 4	Arthropoda	Insecta	Coleoptera 3	Mordellidae		Species 1		Pinned	1	361	1	7/4/2007	

Scarabaeidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 3	Scarabaeidae	Melolonthinae	Phyllophaga	Species 1			2 pinned	1927, 1928	7	5/12/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera	Scarabaeidae	Melolonthinae	Phyllophaga	Species 1		none			4	5/7/2008	uv

YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera	Scarabaeidae	Melolonthinae	Phyllophaga	Species 1		Pinned		1909	1	5/14/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera	Scarabaeidae	Melolonthinae	Phyllophaga	Species 1		Pinned	3	206- 208	4	6/28/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera	Scarabaeidae	Melolonthinae	Phyllophaga	Species 1		Pinned		1918, 1919	2	5/13/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera5	Scarabaeidae	Melolonthinae	Phyllophaga	Species 1		none			11	7/17/2008	uv
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera	Scarabaeidae	Melolonthinae	Phyllophaga	Species 1		Pinned		1912, 1913	2	5/11/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera	Scarabaeidae	Melolonthinae	Phyllophaga	Species 1		Pinned		1936	1	5/14/2007	UV Light
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera	Scarabaeidae	Melolonthinae	Phyllophaga	Species 1		Pinned		1940	1	5/12/2007	UV light
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera	Scarabaeidae	Melolonthinae	Phyllophaga	Species 1		Pinned	1	243	1	7/3/2007	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera	Scarabaeidae	Melolonthinae	Phyllophaga	Species 1		Pinned	2	110, 111	2	6/29/2007	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera	Scarabaeidae	Melolonthinae	Phyllophaga	Species 1		none			11	7/10/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera1	Scarabaeidae	Melolonthinae	Phyllophaga	Species 1		none			11	7/8/2008	uv
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera1	Scarabaeidae	Melolonthinae	Phyllophaga	Species 1		none			1	7/10/2008	uv
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera1	Scarabaeidae	Melolonthinae	Phyllophaga	Species 1		none			11	7/8/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera1	Scarabaeidae	Melolonthinae	Phyllophaga	Species 1		none			1	7/9/2008	uv
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 2	Scarabaeidae	Melolonthinae	Phyllophaga	Species 1		none			1	9/22/2008	uv
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera	Scarabaeidae	Melolonthinae	Phyllophaga	Species 2		Pinned	1	864	1	9/9/2007	UV Light
BWNWR	Reference Riparian 4	Arthropoda	Insecta	Coleoptera 1	Scarabaeidae	Melolonthinae	Phyllophaga	Species 2		pinned		2237	1	10/9/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera	Scarabaeidae	Melolonthinae				Pinned	1	558	2	7/3/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 1	Scarabaeidae		Continis	mutabilis		Pinned	2	1302, 1303	2	9/17/2007	Spot
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Coleoptera 3	Scarabaeidae		Continis	mutabilis		pinned	1 of 2	2176	1	9/19/2008	spot
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Coleoptera 3	Scarabaeidae		Continis	mutabilis		pinned	2 of 2	2177	1	9/19/2008	spot
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera10	Scarabaeidae	Dynastinae	Cyclophala	Species		pinned	1	2121	1	7/17/2008	uv
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera9	Scarabaeidae	Dynastinae	Cyclophala	Species		pinned	1	2063	1	7/17/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 4	Scarabaeidae	Dynastinae	Cyclophala	Species		none			11	9/19/2008	uv
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 1	Scarabaeidae			Species 1		Pinned	1	1190	3	9/14/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera	Scarabaeidae			Species 1		pinned	1	1190	1	9/13/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleptera 1	Scarabaeidae			Species 1		Pinned		1930-1933, 1935	6	5/13/2007	UV Light
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Coleoptera	Scarabaeidae			Species 1		Pinned		1939	1	5/11/2007	Malaise
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 4	Scarabaeidae			Species 1		1 Pinned		1929	3	5/12/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera	Scarabaeidae			Species 1		Pinned	1	899	2	9/9/2007	UV Light
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 1	Scarabaeidae			Species 1		pinned		1941	1	5/12/2007	UV light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera	Scarabaeidae			Species 1		Pinned	1	1202	4	9/13/2007	UV Light
YEW	Rest. Rip 2	Arthropoda	Insecta	Coleoptera	Scarabaeidae			Species 1		Pinned	1	1976			
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera	Scarabaeidae			Species 1		Pinned	1	116	1	6/29/2007	
YEW	Restored Wetland 4	Arthropoda	Insecta	Coleoptera	Scarabaeidae			Species 1		none			1	9/20/2008	malaise
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera	Scarabaeidae			Species 1		none			1	5/6/2008	UV
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera	Scarabaeidae			Species 1		Pinned	2	689- 690	2	7/1/2007	
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera	Scarabaeidae			Species 1		Pinned	3	244- 245	4	7/3/2007	
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 1	Scarabaeidae			Species 2		2 pinned		1937, 1938	4	5/14/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera	Scarabaeidae			Species 2		Pinned	3	246	4	7/3/2007	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera1	Scarabaeidae			Species 2		none			11	7/10/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera2	Scarabaeidae			Species 2		none			1	7/9/2008	uv
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera8	Scarabaeidae			Species 2		none			1	7/17/2008	uv
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera3	Scarabaeidae			Species 2		none			11	7/8/2008	uv
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera1	Scarabaeidae			Species 2		none			11	7/9/2008	uv
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera	Scarabaeidae			Species 2		none			1	5/7/2008	uv
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Coleoptera	Scarabaeidae			Species 2		none			1	5/15/2008	UV

YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 1	Scarabaeidae			Species 2		2 Pinned		1911	5	5/14/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera	Scarabaeidae			Species 2		none			1	5/6/2008	UV
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 2	Scarabaeidae			Species 2		none			1	5/5/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera	Scarabaeidae			Species 2		none			3	5/7/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera	Scarabaeidae			Species 2		Pinned	2	210	3	6/28/2007	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera	Scarabaeidae			Species 2		Pinned	1	174	1	6/28/2007	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera 4	Scarabaeidae			Species 2		4 pinned		1914-1917	4	5/11/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera	Scarabaeidae			Species 2		Pinned	2	559- 560	2	7/3/2007	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleptera 1	Scarabaeidae			Species 2		Pinned		1934	6	5/13/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 1	Scarabaeidae			Species 2		2 Pinned		1910	5	5/14/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera	Scarabaeidae			Species 2		Pinned	2	209	3	6/28/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera2	Scarabaeidae			Species 2		none			35	7/8/2008	uv
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera	Scarabaeidae			Species 3		Pinned	4	112- 115	6	6/29/2007	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 3	Scarabaeidae			Species 3		none			1	9/21/2008	uv
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 3	Scarabaeidae			Species 3		none			1	9/21/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 3	Scarabaeidae			Species 3		none			11	9/19/2008	uv
YEW	Adjacent Ag 2	Arthropoda	Insecta	Coleoptera 5	Scarabaeidae			Species 3		none			11	9/24/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera	Scarabaeidae			Species 3		none			1	5/7/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera	Scarabaeidae			Species 3		Pinned	3	561- 563	11	7/3/2007	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera2	Scarabaeidae			Species 3		none			11	7/10/2008	uv
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera7	Scarabaeidae			Species 3		none			1	7/17/2008	uv
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera	Scarabaeidae			Species 3		Pinned	1	247	1	7/3/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera	Scarabaeidae			Species 3		pinned		1920-1924	5	5/13/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera3	Scarabaeidae			Species 3		none			1	7/8/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera	Scarabaeidae			Species 3		none			1	5/7/2008	uv
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera	Scarabaeidae			Species 3		none			2	5/7/2008	uv
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Coleoptera	Scarabaeidae					Pinned	2	368	4	7/1/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera	Scarabaeidae					Pinned	1	213	1	6/28/2007	
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera	Scarabaeidae					Pinned	1	248	1	7/3/2007	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera	Scarabaeidae					Pinned	1	900	1	9/9/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera	Scarabaeidae					pinned	1	1191	1	9/13/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera	Scarabaeidae					Pinned	1	1201	10	9/13/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera	Scarabaeidae					Pinned	2	211- 212	2	6/28/2007	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera	Scarabaeidae					Pinned	2	976-977	2	9/12/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 1	Scarabaeidae					none			1	9/22/2008	uv
BWNWR	Reference Riparian 4	Arthropoda	Insecta	Coleoptera 2	Scarabaeidae					none			11	10/9/2008	uv
YEW	Adjacent Ag 2	Arthropoda	Insecta	Coleoptera 2	Scarabaeidae					none			11	9/24/2008	uv
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera	Scarabaeidae					Pinned	1	1089	1	9/15/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera	Scarabaeidae					Pinned	1	1156	1	9/14/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 2	Scarabaeidae					None			1	9/17/2007	UV light #2

Staphylinidae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 7	Staphylinidae				ETOH		2	5/12/2007	UV light	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera	Staphylinidae				ETOH	35	155	35	6/29/2007	
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera	Staphylinidae 1				ETOH	abundant	284	76	7/3/2007	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Coleoptera	Staphylinidae 1				ETOH	2	302	2	7/2/2007	

YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera	Staphylinidae 2					ETOH	11	284	11	7/3/2007	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Coleoptera	Staphylinidae 2					Pinned	1	739	1	7/2/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera10	Staphylinidae 3					pinned	1	2087	150	7/8/2008	uv
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Coleoptera 1	Staphylinidae 3					none			1	10/8/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 12	Staphylinidae 4					none			35	9/19/2008	uv
YEW	Adjacent Ag 2	Arthropoda	Insecta	Coleoptera 12	Staphylinidae 5					none			150	9/24/2008	uv
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 14	Staphylinidae 6					none			150	9/21/2008	uv
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 4	Staphylinidae 7					none			35	9/22/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 7	Staphylinidae 8					none			150	9/22/2008	uv
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 8	Staphylinidae 9					none			150	9/20/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 9	Staphylinidae 10					none			150	9/22/2008	uv
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera10	Staphylinidae 3					none			150	7/8/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera12	Staphylinidae 4					none			150	7/9/2008	uv
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera4	Staphylinidae 5					none			150	7/10/2008	uv
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera5	Staphylinidae 6					none			76	7/9/2008	uv
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera5	Staphylinidae 7					none			76	7/10/2008	uv

Tenebrionidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera	Tenebrionidae		Asbolus	verrucosus		Pinned		1461	1	5/11/2007	Malaise
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 7	Tenebrionidae		Asbolus	verrucosus		pinned	2	2027, 2028	2		pit trap
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Coleoptera 2	Tenebrionidae		Asbolus	verrucosus		none			1	9/19/2008	spot
YEW	Riparian Control 2	Arthropoda	Insecta	Coleoptera	Tenebrionidae		Asbolus	verrucosus		Pinned	1	1854	1	4/16/2008	Pit Trap
BWNWR	Reference Riparian 2	Arthropoda	Insecta	Coleoptera	Tenebrionidae		Asbolus	verrucosus		pinned	2	1392-1393	2	4/12/2008	Pit Trap
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera	Tenebrionidae		Eleodes			Pinned	1	201	1	7/1/2007	
YEW	Adjacent Ag 5	Arthropoda	Insecta	Coleoptera 3	Tenebrionidae		Eleodes			Pinned	1	1375	1	9/18/2007	Spot
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera	Tenebrionidae		Eleodes			Pinned	3	1850-1852	7	4/16/2008	Pit Trap
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Coleoptera	Tenebrionidae		Eleodes			Pinned	2	1838-1839	3	4/17/2008	Pit Trap

Super Family-Tenebrionoidea

Site	Location	Phylum	Class	Order	SuperFamily	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera	Tenebrionoidea				Species 1		Pinned	1	1079	1	9/15/2007
YEW	Adjacent Ag 2	Arthropoda	Insecta	Coleoptera 11	Tenebrionoidea				Species 1		none			76	9/24/2008
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Coleoptera 2	Tenebrionoidea				Species 1		none			1	10/8/2008
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 4	Tenebrionoidea				Species 1		none			1	9/21/2008
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 3	Tenebrionoidea				Species 1		Pinned	1	1219	3	9/14/2007
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 8	Tenebrionoidea				Species 1		Pinned		1904	1	5/12/2007
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera13	Tenebrionoidea				Species 1		none			11	7/8/2009
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera2	Tenebrionoidea				Species 1		none			11	7/10/2008
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera6	Tenebrionoidea				Species 1		none			1	7/9/2008
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Coleoptera1	Tenebrionoidea				Species 1		none			1	7/7/2008
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 3	Tenebrionoidea				Species 1		Pinned	1	256	1	7/3/2007
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera4	Tenebrionoidea				Species 1		none			1	7/9/2008
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 6	Tenebrionoidea				Species 1		Pinned	1	143	1	6/29/2007
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera	Tenebrionoidea				Species 1		Pinned	1	568	11	7/3/2007
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera5	Tenebrionoidea				Species 1		none			11	7/8/2008

YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 9	Tenebrionoidea				Species 1		Pinned	1	153	1	6/29/2007
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 8	Tenebrionoidea				Species 1		Pinned		1905,1906, 1908	3	5/13/2007
YEW	Adjacent Ag 5	Arthropoda	Insecta	Coleoptera 1	Tenebrionoidea				Species 1		Pinned	1	209	1	6/30/2007
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera 8	Tenebrionoidea				Species 2		Pinned	1	698	11	7/1/2007
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera 5	Tenebrionoidea				Species 2		Pinned		1890-1892	4	5/11/2007
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera 10	Tenebrionoidea				Species 2		Pinned		1893	2	5/11/2007
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Coleoptera 3	Tenebrionoidea				Species 2		pinned		1894	1	5/11/2007
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera 5	Tenebrionoidea				Species 2		Pinned	3	195- 197	11	6/28/2007
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 8	Tenebrionoidea				Species 2		Pinned	2	146- 147	11	6/29/2007
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera7	Tenebrionoidea				Species 2		none			35	7/8/2008
YEW	Con. Rip 2	Arthropoda	Insecta	Coleoptera8	Tenebrionoidea				Species 2				584		7/12/2007
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 3	Tenebrionoidea				Species 2		Pinned	6	133- 137, 151	11	6/29/2007
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 10	Tenebrionoidea				Species 2		Pinned		1590-1591	2	5/12/2007
YEW	Riparian Control 2	Arthropoda	Insecta	Coleoptera	Tenebrionoidea				Species 2		Pinned	1	1856	1	4/16/2008
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 6	Tenebrionoidea				Species 2		none			1	9/21/2008
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 8	Tenebrionoidea				Species 2		Pinned		1587	1	5/12/2007
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 5	Tenebrionoidea				Species 2		none			35	9/21/2008
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 13	Tenebrionoidea				Species 2		Pinned	2	746- 747	2	7/10/2007
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 8	Tenebrionoidea				Species 1		Pinned		1907	4	5/13/2007
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 4	Tenebrionoidea				Species 2		pinned		1585, 1586	2	5/12/2007
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 9	Tenebrionoidea				Species 2		none			11	9/21/2008
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 5	Tenebrionoidea				Species 2		Pinned	1	163	1	6/29/2007
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera 10	Tenebrionoidea				Species 2		Pinned	1	605	2	6/30/2007
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 7	Tenebrionoidea				Species 2		Pinned	3	263- 264	11	7/3/2007
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 3	Tenebrionoidea				Species 3		Pinned	1	219	1	6/28/2007
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera4	Tenebrionoidea				Species 3		none			11	7/9/2008
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera7	Tenebrionoidea				Species 3		none			76	7/8/2008
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera6	Tenebrionoidea				Species 3		none			1	7/10/2008
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera	Tenebrionoidea				Species 4		Pinned	1	1844	1	4/16/2008
YEW	Adjacent Ag 5	Arthropoda	Insecta	Coleoptera 2	Tenebrionoidea				Species 5		Pinned	1	210	1	6/30/2007
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 7	Tenebrionoidea				Species 6		Pinned	2	583	11	7/3/2007
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 6	Tenebrionoidea				Species 6				1926	1	5/13/2007
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera 1	Tenebrionoidea				Species 7		Pinned	3	901-902	26	9/9/2007
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera 3	Tenebrionoidea				Species 7		Pinned	1	1888	2	5/7/2008
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 3	Tenebrionoidea				Species 7		2 pinned		1592, 1593	11	5/14/2007
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 2	Tenebrionoidea				Species 7		3 Pinned		1895, 1949, 1950	6	5/14/2007
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera 5	Tenebrionoidea				Species 7		Pinned		1462	4	5/11/2007
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 1	Tenebrionoidea				Species 7		pinned	1	1398	14	5/5/2008
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 1	Tenebrionoidea				Species 7		none			7	5/5/2008
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 2	Tenebrionoidea				Species 7		none			1	5/7/2008
YEW	Riparian Control 2	Arthropoda	Insecta	Coleoptera	Tenebrionoidea				Species 8		Pinned	1	1857	1	4/16/2008
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Coleoptera	Tenebrionoidea				Species 9		ETOH	1	2031	1	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera 7	Tenebrionoidea				Species 9		Pinned		1944	2	5/11/2007
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 6	Tenebrionoidea				Species 9		ETOH			7	5/12/2007

Zopheridae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Coleoptera	Zopheridae	Zopherinae	Zopheras			Pinned	2	1842-1843	2	4/16/2008	Pit Trap

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera						pinned	1	131	35	7/8/2008	uv
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera						Pinned	1	162	1	6/29/2007	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera						Pinned	1	165	1	6/28/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera						Pinned	1	218	1	6/28/2007	
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera						Pinned	2	260-261	11	7/3/2007	
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera						ETOH	1	285	76	7/3/2007	
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera						ETOH	1	286	35	7/3/2007	
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera						ETOH	1	287	35	7/3/2007	
YEW	Restored Wetland 4	Arthropoda	Insecta	Coleoptera						ETOH	1	321	1	7/4/2007	
YEW	Restored Wetland 4	Arthropoda	Insecta	Coleoptera						ETOH	1	322	1	7/4/2007	
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Coleoptera						ETOH	1	371	1	7/5/2007	
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Coleoptera						ETOH	2	381	2	7/5/2007	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera						Pinned	1	382	1	7/5/2007	
YEW	Adjacent Ag 2	Arthropoda	Insecta	Coleoptera						Pinned	1	429	1	6/30/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera						ETOH	3	551	11	7/6/2007	
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera						Pinned	1	582	1	7/3/2007	
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera						Pinned	1	586	11	7/3/2007	
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera						Pinned	1	644	1	7/9/2007	
YEW	Control Riparian 5	Arthropoda	Insecta	Coleoptera						ETOH	5	648	5	7/9/2007	
YEW	Control Riparian 5	Arthropoda	Insecta	Coleoptera						Pinned	1	649	1	7/9/2007	
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera						none			11	9/22/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera						none			35	7/8/2008	uv
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera						none			1	7/10/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera						none			11	7/9/2008	uv
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera						Pinned	1	694	1	7/1/2007	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera						none			1	5/6/2008	UV
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera						ETOH	2	743	2	7/10/2007	
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera						Pinned	1	745	1	7/10/2007	
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera						none			11	9/22/2008	uv
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera						Pinned	1	758	1	7/10/2007	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera						Pinned	1	903	1	9/9/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera						Pinned	1	988	1	9/12/2007	UV Light
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Lepidoptera						none			1	7/10/2008	malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera						ETOH	3	1029	3	9/14/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera						Pinned	1	1085	4	9/15/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera						Pinned	1	1191	2	9/14/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera						Pinned	1	1194	10	9/14/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera						pinned	1	1194	1	9/13/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera						Pinned	1	1203	1	9/13/2007	UV Light
YEW	Restored Wetland 1	Arthropoda	Insecta	Hemiptera						none			1	7/10/2008	uv

YEW	Restored Wetland 1	Arthropoda	Insecta	Hemiptera 2						none			11	9/20/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 6						Pinned	1	1225	2	9/14/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera 3						Pinned	1	1356	1	9/18/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera 4						Pinned	1	1358	1	9/18/2007	Spot
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 9						Pinned		1589	1	5/12/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 11						Pinned		1599	2	5/13/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 11						Pinned		1613	1	5/12/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 1						ETOH			6	5/12/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 3						Pinned		1622	1	5/14/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 5						Pinned		1626-1628	3	5/14/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 4						none			1	5/6/2008	UV
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 9						Pinned		1925	2	5/13/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera 8						Pinned		1942, 1943	2	5/11/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 4						Pinned		1948	1	5/14/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera						ETOH	2	2035	2		Pit trap
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera2						pinned	1	2055	76	7/10/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera11						pinned	1	2060	11	7/8/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 10						none			11	7/9/2008	uv
YEW	Adjacent Ag 2	Arthropoda	Insecta	Coleoptera 10						none			76	9/24/2008	uv
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Coleoptera1						pinned	1	2072	1	7/7/2008	malaise
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera7						pinned	2	2098	11	7/9/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera7						pinned	2	2099	11	7/9/2008	uv
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera11						pinned	1	2123	1	7/17/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 9						none			11	9/19/2008	uv
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera12						pinned	1	2124	1	7/17/2008	uv
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera13						pinned	1	2125	1	7/17/2008	uv
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera14						pinned	1	2126	1	7/17/2008	uv
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera15						pinned	1	2127	11	7/17/2008	uv
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera16						pinned	1	2128	1	7/17/2008	uv
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera17						pinned	1	2129	35	7/17/2008	uv
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 11						none			35	9/21/2008	uv
YEW	Adjacent Ag 2	Arthropoda	Insecta	Coleoptera 2						none			11	9/24/2008	malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Coleoptera 6						none			11	9/20/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 7						none			11	9/19/2008	uv
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera18						pinned	1	2130	35	7/17/2008	uv
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Coleoptera 3						none			11	10/8/2008	uv
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 6						none			11	9/22/2008	uv
YEW	Adjacent Ag 1	Arthropoda	Insecta	Coleoptera8						pinned	1 of 2	2149	1	7/8/2008	uv
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Coleoptera4						pinned	1	2151	1	7/18/2008	uv
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Coleoptera19						none			11	7/17/2008	malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Coleoptera 1						pinned		2168	1	9/21/2008	malaise
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 5						none			11	9/22/2008	uv
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 7						none			11	9/22/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 8						none			76	9/19/2008	uv
YEW	Control Riparian 3	Arthropoda	Insecta	Coleoptera 1						pinned		2174	1	9/23/2008	malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 8						pinned	1 of 2	2239	11	9/22/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Coleoptera 6						none			76	9/22/2008	uv
YEW	Adjacent Ag 2	Arthropoda	Insecta	Coleoptera 6						none			76	9/24/2008	uv

YEW	Control Wetland 3	Arthropoda	Insecta	Coleoptera 9						pinned	2 of 2	2240	11	9/22/2008	uv
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Coleoptera 1						ETOH		2241	11	10/8/2008	spot
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 1						ETOH			1	5/13/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Coleoptera 2						ETOH			1	5/13/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Coleoptera 2						ETOH			2	5/12/2007	UV Light
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Coleoptera 1						none			1	9/19/2008	spot

Dermaptera

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Wetland 4	Arthropoda	Insecta	Dermaptera					ETOH	4	2034	6	5/7/2008	pit trap
YEW	Restored Wetland 1	Arthropoda	Insecta	Dermaptera					none			3		pit trap

Diplopoda

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Control Riparian 4	Arthropoda	Diplopoda						ETOH	1	2033	1	5/8/2008	Pit trap

Diptera

Anthomyiidae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 8	Anthomyiidae		Species 1		Pinned		1543	1	5/10/2007	Malaise
YEW	Control Wetland 4	Arthropoda	Insecta	Diptera4	Anthomyiidae		Species 1		none			11	7/9/2008	malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 5	Anthomyiidae		Species 1		1 Pinned		1654	3	5/22/2007	Malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera	Anthomyiidae		Species 2		1		1655	11	5/14/2007	UV Light
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera	Anthomyiidae		Species 2		Pinned		1505	1	5/13/2007	
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera	Anthomyiidae		Species 3		1		1656	11	5/14/2007	UV Light

Asilidae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 1	Asilidae		Species 1		Pinned	2	1277; 1278	2	9/17/2007	Spot
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Diptera 2	Asilidae		Species 1		Pinned	1	881	1	9/10/2007	Spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera 3	Asilidae		Species 1		Pinned	1		1	9/13-20/07	
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera4	Asilidae		Species 2		pinned	1	2117	1	7/17/2008	malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera	Asilidae		Species 3		Pinned	1	866	1	9/10/2007	Spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera	Asilidae		Species 4		Pinned	1	391	1	7/4/2007	
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera1	Asilidae		Species 4		none			1	7/7/2008	malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera	Asilidae		Species 4		Pinned	1	526	1	6/30/2007	
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera	Asilidae		Species 5		Pinned	1	1378	1	9/18/2007	Malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera	Asilidae		Species 5		Pinned	1	803	1	7/5/2007	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 13	Asilidae		Species 5		Pinned		1463	1	5/13/2007	Spot
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Diptera	Asilidae		Species 5		Pinned	1	1045	1	9/13/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera	Asilidae		Species 5		Pinned	2	282- 283	2	6/30/2007	
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera	Asilidae		Species 5		Pinned		1466	1	5/17/2007	Malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera	Asilidae 2		Species 5		Pinned		1467	1	5/11/2007	Spot
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera	Asilidae		Species 5		Pinned		1464	1	5/11/2007	Malaise

YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera	Asilidae			Species 5		Pinned	1	610	1	6/30/2007	
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera	Asilidae			Species 5		Pinned	2	461 and 464	2	7/9/2007	
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 1	Asilidae			Species 5		none			11	9/22/2008	malaise
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Diptera	Asilidae			Species 5		none			1	7/11/2008	malaise
YEW	Control Wetland 4	Arthropoda	Insecta	Diptera1	Asilidae			Species 5		none			1	7/9/2008	malaise
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Diptera5	Asilidae			Species 5		none			1	7/17/2008	malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera	Asilidae			Species 5		none			3	5/18/2008	malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera	Asilidae			Species 5		none			1	7/7/2008	malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera1	Asilidae			Species 5		none			1	7/14/2008	malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera2	Asilidae			Species 5		none			1	7/17/2008	malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera6	Asilidae			Species 5		none			1	7/18/2008	spot
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera1	Asilidae			Species 5		none			1	7/7/2008	spot
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera2	Asilidae			Species 5		none			1	7/9/2008	malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera3	Asilidae			Species 5		none			1	7/11/2008	malaise
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Diptera 1	Asilidae			Species 5		none			1	9/21/2008	malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera 1	Asilidae			Species 5		none			1	9/19/2008	malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 2	Asilidae			Species 5		none			1	9/19/2008	malaise
YWW	Mature Restored Rip. 5	Arthropoda	Hymenoptera 4	Diptera 10	Asilidae			Species 5		none			1	9/19/2008	spot
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Diptera	Asilidae			Species 5		Pinned	1	792	1	7/5/2007	
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera	Asilidae			Species 5		Pinned		1908	1	5/14/2007	Malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera	Asilidae			Species 5		Pinned	1	815	1	7/6/2007	
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera	Asilidae 1			Species 5		Pinned	1	762	1	7/6/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 3	Asilidae 2			Species 5		Pinned	2	1322, 1323	2	9/17/2007	Malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Odonata 3	Asilidae 3			Species 5		Pinned	1	469	5	7/6/2007	
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Odonata 4	Asilidae 4			Species 5		Pinned	1	470	5	7/6/2007	
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Odonata 2	Asilidae 5			Species 5		Pinned	1	471	5	7/6/2007	
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera	Asilidae 2			Species 6		Pinned	1	770	1	7/6/2007	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 9	Asilidae 3			Species 7		Pinned	1	1369	1	9/18/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 8	Asilidae 4			Species 7		None			1	9/18/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 9	Asilidae 5			Species 7		None			2	9/18/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 17	Asilidae 6			Species 7		Pinned	1	613	1	6/30/2007	
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 2	Asilidae 7			Species 8		Pinned	1	530	1	6/30/2007	
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 3	Asilidae 8			Species 8		Pinned	1	531	11	6/30/2007	
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 3	Asilidae 9			Species 9		Pinned	1	920	1	9/10/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 1	Asilidae 10			Species 9		Pinned	1	1120	1	9/15/2007	Malaise
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Diptera 1	Asilidae 11			Species 10		Pinned		1500	1	5/15/2007	Spot
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera	Asilidae 1			Species 11		Pinned		1465	1	5/11/2007	Malaise
YEW	Control Wetland 4	Arthropoda	Insecta	Diptera	Asilidae			Species 11		Pinned	1	1253	1	9/15/2007	Malaise

Bombyliidae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera	Bombyliidae		Species 1		Pinned		1581	1	5/21/2007	
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera	Bombyliidae		Species 1		Pinned		1105	1	9/13/2007	
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera	Bombyliidae		Species 1		Pinned			1	9/13-20/07	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera	Bombyliidae		Species 2		Pinned	1	1141	1	9/10/2007	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 2	Bombyliidae		Species 3		pinned	1	1972	1	5/18/2008	malaise

YEW	Control Riparian 2	Arthropoda	Insecta	Diptera	Bombyliidae		Anthrax	Species 4		pinned	1	1971	2	5/7/2008	Malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera 18	Bombyliidae			Species 5		Pinned		1580	1	5/15/2007	Malaise
YEW	Control Riparian 4	Arthropoda	Insecta	Diptera	Bombyliidae			Species 5		pinned	1	2144	1	7/10/2008	malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera3	Bombyliidae			Species 6		pinned	1	2102	1	7/14/2008	malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 7	Bombyliidae			Species 6		none			1	9/19/2008	spot
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera8	Bombyliidae			Species 6		none			1	7/9/2008	malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 6	Bombyliidae			Species 7		pinned	1	1978	1	5/18/2008	malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera	Bombyliidae			Species 8		Pinned	1	655	1	7/1/2007	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera	Bombyliidae			Species 9		Pinned	1	635	1	7/1/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera	Bombyliidae			Species 10		Pinned	1	1325	1	9/17/2007	Malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 2	Bomylidae			Species 10		Pinned	1	229	1	6/28/2007	
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 3	Bombyliidae			Species 11		Pinned		1509	1	5/21/2007	Malaise

Calliphoridae

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 8	Calliphoridae		Lucilia	Species 1		Pinned	1	1308	1	9/16/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera2	Calliphoridae		Lucilia	Species 1		none			1	7/18/2008	malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera3	Calliphoridae		Lucilia	Species 1		none			11	7/9/2008	malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 11	Calliphoridae		Lucilia	Species 1		Pinned	1	789	1	7/2/2007	
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 2	Calliphoridae		Lucilia	Species 1		Pinned	1	1094	1	9/15/2007	Malaise
YEW	Control Wetland 4	Arthropoda	Insecta	Diptera 3	Calliphoridae		Lucilia	Species 1		Pinned	1	480	3	7/10/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 5	Calliphoridae		Lucilia	Species 1		Pinned	1	1326	1	9/17/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 2	Calliphoridae		Lucilia	Species 1		pinned	1	1986	35	5/9/2008	malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 3	Calliphoridae		Lucilia	Species 1		none			1	10/8/2008	malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 4	Calliphoridae		Lucilia	Species 1		none			1	10/8/2008	malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 1	Calliphoridae		Lucilia	Species 1		none			11	9/22/2008	malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 25	Calliphoridae			Species 2		Pinned	1	1765	15	5/15/2008	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 3	Calliphoridae			Species 2		none		0	12	5/15/2008	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 3	Calliphoridae			Species 2		none			10	5/15/2008	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 1	Calliphoridae			Species 2		none			1	5/9/2008	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 7	Calliphoridae		Lucilia	sericata		Pinned	1	1064	35	9/11/2007	Malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera 7	Calliphoridae		Lucilia	sericata				1513	1	5/17/2007	Spot
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 13	Calliphoridae		Lucilia	sericata		Pinned	1	810	1	7/6/2007	

Chironomidae

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Control Riparian 4	Arthropoda	Insecta	Diptera 4	Chironomidae			Species 1		pinned		2170	11	9/23/2008	malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 3	Chironomidae			Species 1		none			11	9/24/2008	malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 4	Chironomidae			Species 1		none			11	9/24/2008	malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 4	Chironomidae			Species 1		none			11	9/24/2008	malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 5	Chironomidae			Species 1		none			11	9/22/2008	malaise
YEW	Control Riparian 3	Arthropoda	Insecta	Diptera 5	Chironomidae			Species 1						9/23/2008	malaise
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Diptera 6	Chironomidae			Species 1		none			11	9/21/2008	malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 7	Chironomidae			Species 1		none			35	9/22/2008	malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera 5	Chironomidae			Species 1		none			35	9/20/2008	malaise
BWNWR	Reference Riparian 6	Arthropoda	Insecta	Diptera 5	Chironomidae			Species 1		none			11	10/9/2008	malaise

BWNWR	Reference Riparian 2	Arthropoda	Insecta	Diptera 11	Chironomidae			Species 1		none			11	10/9/2008	malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 5	Chironomidae			Species 2		pinned	2190		11	9/24/2008	malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 4	Chironomidae			Species 2		none			11	9/24/2008	malaise
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Diptera 5	Chironomidae			Species 2		none			11	9/21/2008	malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 5	Chironomidae			Species 2		none			11	9/24/2008	malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera	Chironomidae					ETOH			7	5/11/2007	UV Light
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera	Chironomidae					ETOH	4	325	4	7/4/2007	
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera	Chironomidae					ETOH	1	358	1	7/4/2007	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera	Chironomidae					ETOH	19	301	150	7/2/2007	

Chloropidae

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Riparian 4	Arthropoda	Insecta	Diptera 10	Chloropidae			Species 1		pinned	2 of 2	2210	11	10/9/2008	malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 13	Chloropidae?			Species 2		Pinned	1	517	1	6/29/2007	

Culicidae

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera	Culicidae			Species 1		ETOH	1	346	1	7/2/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 7	Culicidae			Species 1		Pinned	1	556	1	7/6/2007	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 8	Culicidae			Species 1		Pinned	1	1082	1	9/15/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 9	Culicidae			Species 1		Pinned	2	1081, 1083	5	9/15/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 10	Culicidae			Species 2		Pinned	1	640	2	7/1/2007	
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Diptera 5	Culicidae			Species 2		Pinned	1	497	1	7/1/2007	
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 6	Culicidae			Species 3		Pinned	1	836	2	7/6/2007	
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera 1	Culicidae			Species 4		Pin		1476	1	5/17/2007	Malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera5	Culicidae			Species 4		none			1	7/7/2008	malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera6	Culicidae			Species 5		ETOH	3	1268	3	9/17/2007	Spot
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 8	Culicidae			Species 5		Pinned		1507	1	5/17/2007	Malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 1	Culicidae			Species 6		pinned	1	1766	21	5/14/2008	Malaise
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Diptera 1	Culicidae			Species 6		none			12	5/14/2008	malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 1	Culicidae			Species 6		none			4	5/14/2008	Malaise
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Diptera 1	Culicidae			Species 7		Pinned	1	877	1	9/10/2007	Spot
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera5	Culicidae			Species 7		none			1	7/17/2008	malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera	Culicidae					ETOH			1	5/11/2007	UV Light
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera3	Culicidae					none			11	7/7/2008	malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 4	Culicidae					Pinned	1	1288	2	9/17/2007	Malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 4	Culicidae					None			17	9/17/2007	Malaise
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Diptera 5	Culicidae					1Pinned		1658	3	5/12/2007	UV Light
BWNWR	Reference Riparian 6	Arthropoda	Insecta	Diptera 1	Culicidae					none			11	10/9/2008	malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 4	Culicidae					none			1	9/19/2008	malaise
YEW	Control Riparian 5	Spot Collection: None	Insecta	Diptera 4	Culicidae					none			11	9/21/2008	malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 7	Culicidae					none				10/8/2008	malaise
BWNWR	Reference Riparian 4	Arthropoda	Insecta	Diptera 8	Culicidae					none			1	10/9/2008	malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 1	Culicidae					none			11	10/8/2008	spot
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera 4	Culicidae					none			11	9/20/2008	malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera 4	Culicidae					none			1	9/19/2008	malaise

YEW	Control Riparian 2	Arthropoda	Insecta	Diptera 3	Culicidae					none			11	9/22/2008	malaise
BWNWR	Reference Riparian 2	Arthropoda	Insecta	Diptera 8	Culicidae					none			1	10/9/2008	malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 1	Culicidae					none			1	10/8/2008	uv

Dolichopodidae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 10	Dolichopodidae		Species 1		Pinned	1	806	1	7/6/2007	
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 4	Dolichopodidae		Species 1		Pinned	2	544- 545	4	7/1/2007	
BWNWR	Reference Riparian 2	Arthropoda	Insecta	Diptera 5	Dolichopodidae		Species 1		pinned	1 of 2	2165	11	10/9/2008	malaise
BWNWR	Reference Riparian 4	Arthropoda	Insecta	Diptera 11	Dolichopodidae		Species 1		none			1	10/9/2008	malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 8	Dolichopodidae		Species 1		Pinned	1	1146	2	9/10/2007	Malaise
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Diptera 3	Dolichopodidae		Species 1		Pinned	1	1053	1	9/13/2007	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 3	Dolichopodidae		Species 1		Pinned	2	473 and 450	3	7/9/2007	
BWNWR	Reference Riparian Cott 5	Arthropoda	Insecta	Diptera 22	Dolichopodidae		Species 1		Pinned		1503	1	5/11/2007	Malaise
YEW	Restored Riparian 2	Arthropoda	Insecta	Diptera 23	Dolichopodidae		Species 1		Pinned	1	1177	1	9/13-20/07	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Diptera 8	Dolichopodidae		Species 1		Pinned	1	989	1	9/12/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Diptera 2	Dolichopodidae		Species 1		none			35	9/21/2008	malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 2	Dolichopodidae		Species 1		none			11	9/24/2008	malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 5	Dolichopodidae		Species 1		none			11	10/8/2008	malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 2	Dolichopodidae		Species 1		none			76	9/24/2008	malaise
YEW	Control Riparian 2	Arthropoda	Insecta	Diptera 1	Dolichopodidae		Species 1		none			11	9/22/2008	malaise
YEW	Control Riparian 2	Arthropoda	Insecta	Diptera 1	Dolichopodidae		Species 1		none			11	9/22/2008	uv
YEW	Control Riparian 4	Arthropoda	Insecta	Diptera 1	Dolichopodidae		Species 1		none			11	9/23/2008	malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 2	Dolichopodidae		Species 1		none			35	9/20/2008	malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 2	Dolichopodidae		Species 1		none			11	9/22/2008	malaise
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Diptera 2	Dolichopodidae		Species 1		none			11	9/21/2008	malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 2	Dolichopodidae		Species 1		none			35	9/21/2008	malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 2	Dolichopodidae		Species 1		none			11	9/24/2008	malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 2	Dolichopodidae		Species 1		none			1	10/8/2008	spot
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 2	Dolichopodidae		Species 1		none			11	10/8/2008	malaise
BWNWR	Reference Riparian 6	Arthropoda	Insecta	Diptera 2	Dolichopodidae		Species 1		none			11	10/9/2008	malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera 3	Dolichopodidae		Species 1		none			35	9/20/2008	malaise
YEW	Control Riparian 3	Arthropoda	Insecta	Diptera 3	Dolichopodidae		Species 1		none			35	9/23/2008	malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 4	Dolichopodidae		Species 1		none			35	9/22/2008	malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera 4	Dolichopodidae		Species 1		none			35	9/23/2008	malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera 5	Dolichopodidae		Species 1		none			11	9/19/2008	malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 5	Dolichopodidae		Species 1		none			35	9/19/2008	malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera 6	Dolichopodidae		Species 1		none			35	9/20/2008	malaise
BWNWR	Reference Riparian 2	Arthropoda	Insecta	Diptera 6	Dolichopodidae		Species 1					11	10/9/2008	malaise
BWNWR	Reference Riparian 4	Arthropoda	Insecta	Diptera 6	Dolichopodidae		Species 1		none			11	10/9/2008	malaise
BWNWR	Reference Riparian 4	Arthropoda	Insecta	Diptera 6	Dolichopodidae		Species 1		none			11	10/9/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 1	Dolichopodidae		Species 1		none			35	9/19/2008	malaise
YEW	Control Riparian 4	Arthropoda	Insecta	Diptera	Dolichopodidae		Species 1		none			35	7/10/2008	malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera3	Dolichopodidae		Species 1		none			76	7/10/2008	malaise
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Diptera3	Dolichopodidae		Species 1		none			35	7/17/2008	malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera6	Dolichopodidae		Species 1		none			76	7/7/2008	malaise

BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera7'	Dolichopodidae			Species 1			none			11	7/18/2008	malaise
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Diptera1	Dolichopodidae			Species 1			none			35	7/14/2008	malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera1	Dolichopodidae			Species 1			none			76	7/18/2008	malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera2	Dolichopodidae			Species 1			none			76	7/9/2008	malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera3	Dolichopodidae			Species 1			none			11	7/17/2008	malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera4	Dolichopodidae			Species 1			none			35	7/18/2008	malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera5	Dolichopodidae			Species 1			none			76	7/14/2008	malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera5	Dolichopodidae			Species 1			none			11	7/17/2008	malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera6	Dolichopodidae			Species 1			none			11	7/18/2008	malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera10	Dolichopodidae			Species 1			none			11	7/9/2008	malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera2	Dolichopodidae			Species 1			none			11	7/11/2008	malaise
YEW	Control Riparian 2	Arthropoda	Insecta	Diptera2	Dolichopodidae			Species 1			none			11	7/10/2008	malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera2	Dolichopodidae			Species 1			none			35	7/8/2008	malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera4	Dolichopodidae			Species 1			none			35	7/7/2008	malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera4	Dolichopodidae			Species 1			none			35	7/14/2008	malaise
YEW	Control Wetland 4	Arthropoda	Insecta	Diptera5	Dolichopodidae			Species 1			none			35	7/9/2008	malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera9	Dolichopodidae			Species 1			none			35	7/7/2008	malaise
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Diptera2	Dolichopodidae			Species 1			none			150	7/11/2008	malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera1	Dolichopodidae			Species 1			pinned	1 of 2	2074	76	7/8/2008	malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera1	Dolichopodidae			Species 1			pinned	2 of 2	2075	76	7/8/2008	malaise
BWNWR	Reference Riparian 2	Arthropoda	Insecta	Diptera 5	Dolichopodidae			Species 1			pinned	2 of 2	2166	11	10/9/2008	malaise
YEW	Control Riparian 4	Arthropoda	Insecta	Diptera 6	Dolichopodidae			Species 1			none			2	5/8/2008	Malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera1	Dolichopodidae			Species 1			none			35	7/11/2008	malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 6	Dolichopodidae			Species 2			Pinned	2	700- 701	4	7/1/2007	
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 2	Dolichopodidae			Species 2			Pinned	1	722	1	7/2/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 9	Dolichopodidae			Species 2			Pinned	1	805	5	7/6/2007	
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Diptera 5	Dolichopodidae			Species 2			Pinned	1	796	5	7/5/2007	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Diptera3	Dolichopodidae			Species 2			pinned	1	2070	11	7/11/2008	malaise
YEW	Control Riparian 2	Arthropoda	Insecta	Diptera1	Dolichopodidae			Species 2			none			1	7/10/2008	malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera3	Dolichopodidae			Species 2			none			11	7/7/2008	malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera4	Dolichopodidae			Species 2			none			1	7/7/2008	malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera6	Dolichopodidae			Species 2			none			11	7/9/2008	malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera6	Dolichopodidae			Species 2			none			1	7/18/2008	uv
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 5	Dolichopodidae			Species 2			Pinned	1	720	1	7/2/2007	
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 14	Dolichopodidae			Species 2			Pinned	1	930	1	9/10/2007	Malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 6	Dolichopodidae			Species 2			None			1	9/17/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 3	Dolichopodidae			Species 2			Pinned	1	1022	2	9/11/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera2	Dolichopodidae			Species 2			pinned	1	2076	1	7/8/2008	malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera3	Dolichopodidae			Species 2			none			11	7/14/2008	malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 1	Dolichopodidae			Species 3			Pinned	1	771	1	7/6/2007	
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera 3	Dolichopodidae			Species 3			Pinned	1	800	10	7/5/2007	
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera 7	Dolichopodidae			Species 4			Pinned	1	1363	1	9/17/2007	Malaise

Drosophilidae																
Site	Location	Phylum	Class	Order	Family			Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera 8	Drosophilidae				Species 1		Pinned	1	1364	1	9/17/2007	Malaise
YEW	Control Riparian 4	Arthropoda	Insecta	Diptera 9	Drosophilidae				Species 1		none			1	5/8/2008	Malaise

YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 4	Drosophilidae			Species 1		none			1	9/19/2008	malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 7	Drosophilidae			Species 1		none			11	9/19/2008	malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera 7	Drosophilidae			Species 1		none			1	9/19/2008	malaise

Empididae

Site	Location	Phylum	Class	Order	Family			Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Diptera 5	Empididae				Species 1		Pinned	1	1055	1	9/13/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 5	Empididae				Species 2		Pinned	1	1320	1	9/18/2007	Spot

Ephydriidae

Site	Location	Phylum	Class	Order	Family			Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 3	Ephydriidae				Species 1		Pinned	2	731- 732	6	7/2/2007	

Lauxaniidae

Site	Location	Phylum	Class	Order	Family			Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Riparian 6	Arthropoda	Insecta	Diptera 6	Lauxaniidae?				Species 1		pinned	1	2161	1	10/9/2008	malaise
BWNWR	Reference Riparian 2	Arthropoda	Insecta	Diptera 10	Lauxaniidae?				Species 1		none			1	10/9/2008	malaise

Muscidae

Site	Location	Phylum	Class	Order	Family			Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 8	Muscidae				Species 1		Pinned	2	512	35	6/29/2007	
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Diptera2	Muscidae				Species 1		none			11	7/17/2008	malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera3	Muscidae				Species 1		none			11	7/18/2008	malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera3	Muscidae				Species 1		none			1	7/17/2008	malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera3	Muscidae				Species 1		none			1	7/7/2008	malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera5	Muscidae				Species 1		none			1	7/9/2008	malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera1	Muscidae				Species 1		none			1	7/8/2008	uv
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera 2	Muscidae				Species 1		none			11	9/20/2008	uv
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera 2	Muscidae				Species 1		none			11	9/23/2008	malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 2	Muscidae				Species 1		none			11	9/19/2008	malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 2	Muscidae				Species 1		none			1	9/19/2008	uv
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 2	Muscidae				Species 1		none			1	10/8/2008	spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 2	Muscidae				Species 1		none			35	10/8/2008	malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera 3	Muscidae				Species 1		none			1	9/19/2008	malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 3	Muscidae				Species 1		none			11	10/8/2008	malaise
BWNWR	Reference Riparian 6	Arthropoda	Insecta	Diptera 6	Muscidae				Species 1		none			1	10/9/2008	spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera 2	Muscidae				Species 1		none			11	9/20/2008	malaise
BWNWR	Reference Riparian 4	Arthropoda	Insecta	Diptera 3	Muscidae				Species 1		none			11	10/9/2008	malaise
YEW	Control Wetland 4	Arthropoda	Insecta	Diptera 4	Muscidae				Species 2		Pinned	1	481	2	7/10/2007	
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 7	Muscidae				Species 2		none			9	5/7/2008	malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 2	Muscidae				Species 2		Pinned		1492	2	5/13/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 9	Muscidae				Species 2		1 Pinned		1482	3	5/22/2007	Malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 4	Muscidae				Species 2		Pinned		1496	1	5/17/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera4	Muscidae				Species 2		none			1		malaise

YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 10	Muscidae				Species 2		Pinned		1571	1	5/22/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 4	Muscidae				Species 2		Pinned		1553	1	5/10/2007	Malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera 22	Muscidae				Species 3		Pinned		1645		5/15/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 3	Muscidae				Species 4		Pinned	1	715	5	7/2/2007	
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera 11	Muscidae				Species 5		Pinned		1483	2	5/14/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 7	Muscidae				Species 6				1574	7	5/10/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 13	Muscidae				Species 7		Pinned		1556	1	5/10/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 10	Muscidae				Species 7		1 pinned		1568	3	5/10/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 6	Muscidae				Species 7		none			11	9/22/2008	malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 7	Muscidae				Species 7		Pinned	1	1144	1	9/10/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 7	Muscidae				Species 7		Pinned	1	728	5	7/2/2007	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 6	Muscidae				Species 7		Pinned	1	783	20	7/2/2007	
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 3	Muscidae				Species 7		Pinned	1	716	5	7/2/2007	
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 5	Muscidae				Species 7		Pinned	1	454	4	7/4/2007	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 12	Muscidae				Species 7		Pinned	1	516	1	6/29/2007	
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 3	Muscidae				Species 7		Pinned	1	532	11	6/30/2007	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 5	Muscidae				Species 8		Pinned	1	782	1	7/2/2007	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera2	Muscidae				Species 8		none			1	7/17/2008	malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera3	Muscidae				Species 8		none			11	7/18/2008	malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 9	Muscidae				Species 9		Pinned		1573	2	5/11/2007	UV Light
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 4	Muscidae				Species 10		6 Pinned		1533	18	5/22/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 8	Muscidae				Species 10		Pinned	1	1065	1	9/11/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 12	Muscidae				Species 11		Pinned		1564	1	5/10/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 6	Muscidae				Species 12		1 Pinned		1657	2	5/22/2007	Malaise
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Diptera 4	Muscidae				Species 13		1 Pinned		1480	2	5/15/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 5	Muscidae				Species 14		Pinned	1	1133	22	9/11/2007	Malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera	Muscidae				Species 15		1		1512	11	5/14/2007	UV Light
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 4	Muscidae				Species 16		Pinned		1470	1	5/13/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 6	Muscidae				Species 17		Pinned	1	1028	7	9/11/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 7	Muscidae				Species 18		Pinned	1	854	2	7/10/2007	
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera 7	Muscidae				Species 18		none			11	5/5/2008	malaise
BWNWR	Reference Riparian 2	Arthropoda	Insecta	Diptera 9	Muscidae				Species 19				2167	1	10/9/2008	malaise
BWNWR	Reference Riparian 4	Arthropoda	Insecta	Diptera 7	Muscidae				Species 19		pinned		2208	11	10/9/2008	malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 10	Muscidae						none			11	10/8/2008	uv

Otitidae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 1	Otitidae				1 Pinned; 3 ETOH		1479	7	5/10/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 1	Otitidae				Pinned		1484, 1481	11	5/10/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 5	Otitidae				none			1	10/8/2008	malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 3	Otitidae				1 pinned		1491	3	5/10/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera	Otitidae				Pinned	1	1756	70	5/15/2008	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera	Otitidae				none		0	35	5/15/2008	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera	Otitidae				none			18	5/15/2008	Malaise
YEW	Control Wetland 4	Arthropoda	Insecta	Diptera 1	Otitidae				Pinned	1	776	1	7/10/2007	
YEW	Control Wetland 4	Arthropoda	Insecta	Diptera 5	Otitidae				Pinned	1	1254	1	9/15/2007	Malaise

BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 3	Otitidae					pinned	1	2221	1	10/8/2008	spot
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 3	Otitidae					none			1	10/8/2008	malaise

Phoridae

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera 5	Phoridae			Species 1		pinned		2183	11	9/20/2008	malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 6	Phoridae			Species 1		none			1	9/19/2008	malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera5	Phoridae			Species 2		pinned	2 of 2	2078	11	7/7/2008	malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera6	Phoridae			Species 2		none			2	5/5/2008	uv
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera5	Phoridae			Species 2		pinned	1 of 2	2077	11	7/7/2008	malaise
YEW	Control Riparian 3	Arthropoda	Insecta	Diptera 4	Phoridae			Species 2		none			11	9/23/2008	malaise
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Diptera 3	Phoridae			Species 2		none			11	9/21/2008	malaise
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Diptera 3	Phoridae			Species 2		none			35	9/21/2008	malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 3	Phoridae			Species 2		none			11	9/24/2008	malaise
YEW	Control Riparian 2	Arthropoda	Insecta	Diptera 2	Phoridae			Species 2		none			11	9/22/2008	malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 5	Phoridae			Species 2		none			35	9/22/2008	malaise
YEW	Control Riparian 4	Arthropoda	Insecta	Diptera 2	Phoridae			Species 2		none			11	9/23/2008	malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 3	Phoridae			Species 2		none			11	9/20/2008	malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 3	Phoridae			Species 2		none			11	9/22/2008	malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 3	Phoridae			Species 2		none			11	9/19/2008	malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 3	Phoridae			Species 2		none			11	9/21/2008	malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 3	Phoridae			Species 2		none			11	9/24/2008	malaise
BWNWR	Reference Riparian 6	Arthropoda	Insecta	Diptera 3	Phoridae			Species 2		none			11	10/9/2008	malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera 4	Phoridae			Species 2		none			11	9/20/2008	malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera 5	Phoridae			Species 2		none			11	9/23/2008	malaise
BWNWR	Reference Riparian 4	Arthropoda	Insecta	Diptera 5	Phoridae			Species 2		none			1	10/9/2008	malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera 6	Phoridae			Species 2		none			11	9/19/2008	malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 6	Phoridae			Species 2		none			11	9/19/2008	mlaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera 7	Phoridae			Species 2		none			35	9/20/2008	malaise
BWNWR	Reference Riparian 2	Arthropoda	Insecta	Diptera 7	Phoridae			Species 2					1	10/9/2008	malaise
YEW	Control Riparian 4	Arthropoda	Insecta	Diptera	Phoridae			Species 2		none			11	7/10/2008	malaise
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Diptera4	Phoridae			Species 2		none			11	7/17/2008	malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera5	Phoridae			Species 2		none			11	7/7/2008	malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera5	Phoridae			Species 2		none			1	7/7/2008	spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera5	Phoridae			Species 2		none			11		malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera8	Phoridae			Species 2		none			11	7/18/2008	malaise
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Diptera2	Phoridae			Species 2		none			35	7/14/2008	malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera3	Phoridae			Species 2		none			11	7/9/2008	malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera4	Phoridae			Species 2		none			35	7/14/2008	malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera4	Phoridae			Species 2		none			11	7/17/2008	malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera5	Phoridae			Species 2		none			11	7/18/2008	malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera6	Phoridae			Species 2		none			11	7/17/2008	malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera7	Phoridae			Species 2		none			11	7/18/2008	malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera1	Phoridae			Species 2		none			35	7/8/2008	malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera3	Phoridae			Species 2		none			11	7/11/2008	malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 11	Phoridae			Species 2		none			11	7/9/2008	malaise
YEW	Control Riparian 2	Arthropoda	Insecta	Diptera3	Phoridae			Species 2		none			11	7/10/2008	malaise

YEW	Control Wetland 4	Arthropoda	Insecta	Diptera6	Phoridae			Species 2		none		11	7/9/2008	malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera8	Phoridae			Species 2		none		11	7/7/2008	malaise

Pipunculidae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Diptera 4	Pipunculidae		Species 1		Pinned	1	1054	1	9/13/2007	Malaise
YEW	Control Riparian 4	Arthropoda	Insecta	Diptera 8	Pipunculidae		Species 1		none			1	5/8/2008	Malaise

Platystomatidae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera	Platystomatidae		Species 1		Pinned	1	504	11	6/29/2007	
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 2	Platystomatidae		Species 1		Pinned	2	713- 714	8	7/2/2007	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 4	Platystomatidae		Species 1		Pinned	2	780- 781	35	7/2/2007	
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 3	Platystomatidae		Species 1		none			1	10/8/2008	spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 3	Platystomatidae		Species 1		none			1	10/8/2008	malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 4	Platystomatidae		Species 1		none			1	9/20/2008	malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 8	Platystomatidae		Species 1		none			11	10/8/2008	malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 4	Platystomatidae		Species 1		Pinned	1	1024	6	9/11/2007	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 4	Platystomatidae		Species 1		Pinned	1	543	1	7/1/2007	
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 3	Platystomatidae		Species 2		Pinned	1	723	3	7/2/2007	
YEW	Control Wetland 4	Arthropoda	Insecta	Diptera 6	Platystomatidae		Species 2		Pinned	1	1255	1	9/15/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera3	Platystomatidae		Species 2		none			11	7/18/2008	malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera6	Platystomatidae		Species 2		none			11	7/18/2008	malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera5	Platystomatidae		Species 2		none			11	7/18/2008	malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera5	Platystomatidae		Species 2		none			1	7/18/2008	uv

Sarcophagidae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 2	Sarcophagidae	Sarcophaga	Species 1		1 Pinned		1468	14	5/22/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 2	Sarcophagidae	Sarcophaga	Species 1		Pinned	1	1017	4	9/11/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 3	Sarcophagidae	Sarcophaga	Species 1		Pinned	1	287	1	6/30/2007	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 9	Sarcophagidae	Sarcophaga	Species 1		Pinned	1	787	1	7/2/2007	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 5	Sarcophagidae	Sarcophaga	Species 1		Pinned	1	1366	6	9/18/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 4	Sarcophagidae	Sarcophaga	Species 1		None			10	9/18/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 6	Sarcophagidae	Sarcophaga	Species 1		None			3	9/18/2007	Malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 1	Sarcophagidae	Sarcophaga	Species 1		Pinned	1	1093	3	9/15/2007	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 11	Sarcophagidae	Sarcophaga	Species 1		Pinned	1	1312	1	9/16/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 1	Sarcophagidae	Sarcophaga	Species 1		None			1	9/18/2007	Spot
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 11	Sarcophagidae	Sarcophaga	Species 1		pinned		1472	2	5/17/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 1	Sarcophagidae		Species 2		Pinned	2	1015-1016	44	9/11/2007	Malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 2	Sarcophagidae		Species 2		Pinned	1	1238	1	9/14/2007	Malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera 2	Sarcophagidae		Species 2		None			18	9/17/2007	Malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 3	Sarcophagidae		Species 2		None			5	9/17/2007	Malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 2	Sarcophagidae		Species 2		ETOH	35	288	35	7/3/2007	
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 3	Sarcophagidae		Species 2		ETOH	35	288	35	7/3/2007	

YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 4	Sarcophagidae			Species 2		Pinned	1	288	1	6/30/2007	
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Hymenoptera	Sarcophagidae			Species 2		Pinned	1	1061	1	9/11/2007	Malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 15	Sarcophagidae			Species 2		pinned		1498	1	5/17/2007	Malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 15	Sarcophagidae			Species 3		Pinned	1	812	1	7/6/2007	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 6	Sarcophagidae			Species 4		Pinned	1	1136	1	9/11/2007	Malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera 4	Sarcophagidae			Species 5		Pinned	1	804	1	7/5/2007	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 10	Sarcophagidae			Species 6		Pinned	1	514	1	6/29/2007	
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 8	Sarcophagidae			Species 6		none			1	5/6/2008	malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 5	Sarcophagidae			Species 7		Pinned	3	290	11	6/30/2007	
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 2	Sarcophagidae			Species 8		12 ETOH; 14 pinned		1646, 1578	27	5/10/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 10	Sarcophagidae			Species 8		Pinned		1583	2	5/10/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 8	Sarcophagidae			Species 8		Pinned	2	295- 296	35	6/30/2007	
YEW	Control Riparian 4	Arthropoda	Insecta	Diptera 3	Sarcophagidae			Species 8		Pinned	1	477	3	7/9/2007	
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Diptera 4	Sarcophagidae			Species 8		Pinned	1	794	1	7/5/2007	
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 1	Sarcophagidae			Species 8		4 Pinned; 5 ETOH;		1563, 1579, 1648	7	5/10/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 2	Sarcophagidae			Species 8		Pinned		1501	1	5/22/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 3	Sarcophagidae			Species 9		Pinned	1	726	3	7/2/2007	
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 3	Sarcophagidae			Species 10		Pinned	1	725	3	7/2/2007	
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 5	Sarcophagidae			Species 11		Pinned	1	673	1	7/1/2007	
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera7	Sarcophagidae			Species 11		none			11	7/9/2008	malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 3	Sarcophagidae			Species 11		Pinned		1567, 1489	2	5/10/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 11	Sarcophagidae			Species 12		Pinned		1649	1	5/10/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 6	Sarcophagidae			Species 12		bag		1544	1	5/10/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 9	Sarcophagidae			Species 12		Pinned		1547	2	5/10/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 8	Sarcophagidae			Species 12		Pinned	1	729	1	7/2/2007	
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera 8	Sarcophagidae			Species 13		pinned		1499	1	5/17/2007	Spot
YEW	Control Riparian 2	Arthropoda	Insecta	Diptera 3	Sarcophagidae			Species 13		Pinned	2	843- 844	2	7/9/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 16	Sarcophagidae			Species 13		Pinned	1	813	1	7/6/2007	
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 3	Sarcophagidae			Species 14		Pinned		1643	2	5/22/2007	Malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera2	Sarcophagidae			Species 14		none			11	7/11/2008	malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera 19	Sarcophagidae			Species 14		Pinned		1659	1	5/15/2007	Malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera3	Sarcophagidae			Species 14		none			11	7/10/2008	uv
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 8	Sarcophagidae			Species 14		Pinned		1651	1	5/14/2007	Malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 5	Sarcophagidae			Species 14		Pinned		1510	1	5/21/2007	Malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 11	Sarcophagidae			Species 14		Pinned	2	807	6	7/6/2007	
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 4	Sarcophagidae			Species 14		Pinned	1	724	1	7/2/2007	
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 1	Sarcophagidae			Species 14		Pinned	1	466	1	7/9/2007	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 6	Sarcophagidae			Species 15		Pinned	1	784	20	7/2/2007	
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 7	Sarcophagidae			Species 15		Pinned	2	718	1	7/1-3/07	
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera 20	Sarcophagidae			Species 16		1 Pinned		1660	2	5/15/2007	Malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera 10	Sarcophagidae			Species 16		ETOH		1502	1	5/15/2007	Malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 10	Sarcophagidae			Species 16		Pinned	1	1148	18	9/10/2007	Malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 1	Sarcophagidae			Species 16		None			4	9/14/2007	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 7	Sarcophagidae			Species 16		Pinned	1	924	6	9/10/2007	Malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 2	Sarcophagidae			Species 16		Pinned	2	639	5	7/1/2007	
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera 1	Sarcophagidae			Species 16		Pinned	1	1182	1	9/14/2007	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 10	Sarcophagidae			Species 16		Pinned	1	929	7	9/10/2007	Malaise

BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 4	Sarcophagidae			Species 17		Pinned	1	719	2	7/2/2007	
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 6	Sarcophagidae			Species 17		Pinned	2	727	1	7/2/2007	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 8	Sarcophagidae			Species 17		Pinned	1	786	1	7/2/2007	
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 2	Sarcophagidae			Species 18		Pinned	1	467	1	7/9/2007	
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera 1	Sarcophagidae			Species 18		Pinned		1478	1	5/14/2007	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 2	Sarcophagidae			Species 19		Pinned		1540	3	5/14/2007	Malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera 9	Sarcophagidae			Species 19			1	1653	3	5/14/2007	Malaise
YEW	Control Wetland 4	Arthropoda	Insecta	Diptera 6	Sarcophagidae			Species 20		Pinned	1	485	4	7/10/2007	
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 5	Sarcophagidae			Species 20		Pinned	1	1027	2	9/11/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 1	Sarcophagidae			Species 21		Pinned	1	177	1	6/28/2007	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Diptera 2	Sarcophagidae			Species 21		none			11	7/10/2008	uv
YEW	Control Riparian 4	Arthropoda	Insecta	Diptera 2	Sarcophagidae			Species 22		Pinned	1	476	2	7/9/2007	
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 3	Sarcophagidae			Species 22		Pinned	1	2089	1	7/7-16/08	
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 4	Sarcophagidae			Species 23		Pinned	1	832	1	7/6/2007	
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 12	Sarcophagidae			Species 24		Pinned	1	1379	1	9/18/2007	Malaise

Sciomyzidae?

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 1	Sciomyzidae?			Species 1		Pinned	1	948	2	9/11/2007	UV Light
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 5	Sciomyzidae?			Species 1		None			1	9/17/2007	Malaise

Syrphidae

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Control Riparian 4	Arthropoda	Insecta	Diptera 5	Syrphidae			Species 1		pinned	1 of 2	2194	1	9/23/2008	spot
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 1	Syrphidae			Species 1		none			11	10/8/2008	malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 4	Syrphidae			Species 1		none			11	10/8/2008	malaise
BWNWR	Reference Riparian 6	Arthropoda	Insecta	Diptera 8	Syrphidae			Species 1		none			1	10/9/2008	spot
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 7	Syrphidae			Species 1		none			1	10/8/2008	malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera	Syrphidae			Species 2		pinned		1541	1	5/17/2007	Spot
YEW	Control Riparian 4	Arthropoda	Insecta	Diptera 5	Syrphidae			Species 3		pinned	1 of 2	2195	1	9/23/2008	spot
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 5	Syrphidae			Species 4		Pinned		1471	1	5/20/2007	Spot
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera	Syrphidae			Species 5		Pinned	1	1759	52	5/15/2008	Malaise
BWNWR	Reference Riparian 6	Arthropoda	Insecta	Diptera 7	Syrphidae			Species 5		none			1	10/9/2008	spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera	Syrphidae			Species 5		none		0	21	5/15/2008	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera	Syrphidae			Species 5		none			33	5/15/2008	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera	Syrphidae			Species 5		none			2	5/9/2008	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera	Syrphidae			Species 6		Pinned	1	1979	1	5/9/2008	Spot
BWNWR	Reference Riparian 4	Arthropoda	Insecta	Diptera 9	Syrphidae			Species 6		none			11	10/9/2008	malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera	Syrphidae			Species 6		1 Pinned		1561	3	5/22/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera	Syrphidae			Species 7		2 Pinned		1560, 1562	3	5/22/2007	Malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera	Syrphidae			Species 7		2 pinned; 11 in ETOH		1559, 1558	12	5/17/2007	Malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera	Syrphidae			Species 7		none			1	5/6/2008	malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera	Syrphidae			Species 8		Pinned		1516	1	5/14/2007	Malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 17	Syrphidae			Species 9		pinned		1526	2	5/17/2007	Malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera	Syrphidae			Species 9		none			1	5/5/2008	malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera	Syrphidae			Species 9		Pinned	1	503	11	6/29/2007	

YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera	Syrphidae			Species 9		none		1	5/6/2008	malaise	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera	Syrphidae			Species 9		Pinned	1	1134	1	9/11/2007	Malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera	Syrphidae			Species 9		none			1	9/19/2008	uv
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 2	Syrphidae			Species 9		None			1	9/18/2007	Spot
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 1	Syrphidae			Species 9		None			1	9/18/2007	Spot
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera	Syrphidae			Species 9		Pinned		1529	1	5/22/2007	Malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera	Syrphidae			Species 9		Pinned		1532	1	5/14/2007	Spot
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera	Syrphidae			Species 9		2 pinned; 25 in ETOh		1536, 1525	28	5/17/2007	Malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera	Syrphidae			Species 9		none			8	5/7/2008	malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera	Syrphidae			Species 9		4 Pinned		1525, 1534, 1521	4	5/15/2007	Malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 8	Syrphidae			Species 9		Pinned		1520, 1528	1	5/21/2007	Spot
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Diptera	Syrphidae			Species 9		Pinned	1	496	1	7/1/2007	
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera	Syrphidae			Species 10		Pinned		1519	1	5/22/2007	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera	Syrphidae			Species 10		Pinned		1515	1	5/11/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera	Syrphidae			Species 11		Pinned	2	298	12	6/30/2007	
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera	Syrphidae			Species 11		Pinned	1	525	3	6/30/2007	
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera	Syrphidae			Species 12		Pinned	2	297	12	6/30/2007	
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera	Syrphidae			Species 13		Pinned	1	211	1	6/30/2007	
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 8	Syrphidae			Species 14		Pinned		1518	1	5/21/2007	Spot
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 5	Syrphidae		Eristalis	Species 15		Pinned		1539	2	5/17/2007	Malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera	Syrphidae		Eristalis	Species 15		Pinned	1	1043	1	9/14/2007	Spot
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera	Syrphidae			Species 16		Pinned	2	1135	2	9/11/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 3	Syrphidae			Species 16		None			1	9/18/2007	Spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera5	Syrphidae			Species 16		none			1	7/18/2008	malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera6	Syrphidae			Species 16		none			11	7/18/2008	malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera	Syrphidae			Species 16		Pinned		1582	1	5/10/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera	Syrphidae			Species 16		Pinned	1	853	2	7/10/2007	
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera	Syrphidae			Species 16		Pinned	1	1023	4	9/11/2007	Malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera5	Syrphidae			Species 16		none			1	7/11/2008	malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 9	Syrphidae			Species 16		none			11	10/8/2008	malaise
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Diptera	Syrphidae			Species 16		Pinned		1530	1	5/15/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera	Syrphidae			Species 16		Pinned	1	1760	6	5/15/2008	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera	Syrphidae			Species 17		Pinned	1	1137	1	9/11/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera4	Syrphidae			Species 17		none			1	7/18/2008	malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera8	Syrphidae			Species 17		none			1	7/18/2008	malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera	Syrphidae			Species 18		Pinned	1	1761	1	5/15/2008	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera	Syrphidae			Species 18		Pinned	1	945	1	9/11/2007	UV Light
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera	Syrphidae			Species 18		Pinned	1	923	1	9/10/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera9	Syrphidae			Species 18		none			1	7/18/2008	malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera	Syrphidae			Species 18		Pinned	1	1021	1	9/11/2007	Malaise
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Diptera	Syrphidae			Species 18		Pinned	1	911	1	9/10/2007	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 6	Syrphidae			Species 19		Pinned	1	1063	1	9/11/2007	Malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera1	Syrphidae			Species 19		pinned	1	2068	1	7/9/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera4	Syrphidae			Species 19		pinned	1	2137	1	7/7/2008	malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera1	Syrphidae			Species 20		pinned	2	2049	1	7/10/2008	uv
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera 6	Syrphidae			Species 20		none			11	9/20/2008	uv

BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 6	Syrphidae			Species 20			none			10/8/2008	malaise	
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera1	Syrphidae			Species 20			pinned	2	2050	1	7/10/2008	uv

Stratiomyidae

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera	Stratiomyidae			Species 1		ETOH	1	311	1	7/2/2007	
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera7	Stratiomyidae?			Species 2		pinned	1	2118	1	7/17/2008	malaise

Tabanidae

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 3	Tabanidae			Species 1		Pinned		1493	1	5/13/2007	Malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera 1	Tabanidae			Species 1		Pinned	1	399	1	7/5/2007	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 8	Tabanidae			Species 2		Pinned	1	1367	1	9/18/2007	Malaise

Tachnidae

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera	Tachnidae			Species 1		1 pinned		1473	3	5/17/2007	Malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 5	Tachnidae			Species 1		none			1	5/6/2008	malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 4	Tachnidae			Species 1		Pinned	1	1140	3	9/10/2007	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 4	Tachnidae			Species 1		Pinned	2	918, 919	9	9/10/2007	Malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 1	Tachnidae			Species 1		Pinned		1475	1	5/11/2007	Malaise
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Diptera	Tachnidae			Species 1		Pinned	2	912, 913	2	9/10/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 1	Tachnidae			Species 3		Pinned	1	1758	32	5/15/2008	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 1	Tachnidae			Species 3		none		0	12	5/15/2008	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 3	Tachnidae			Species 3		none			4	5/10/2008	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 5	Tachnidae			Species 3		none			3	5/15/2008	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 1	Tachnidae			Species 3			1	1249	1	9/16/2007	Phytophagus
YEW	Control Wetland 4	Arthropoda	Insecta	Diptera 4	Tachnidae			Species 3			1	1251	5	9/15/2007	Phytophagus
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 2	Tachnidae			Species 3			1	1092	1	9/15/2007	Phytophagus
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 1	Tachnidae			Species 3			1	487	5	7/10/2007	Phytophagus
YEW	Control Wetland 4	Arthropoda	Insecta	Diptera 2	Tachnidae			Species 3			1	479	5	7/10/2007	Phytophagus
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera	Tachnidae			Species 3				1469	1	5/21/2007	Phytophagus
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 10	Tachnidae			Species 4		Pinned	1	788	1	7/2/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 1	Tachnidae			Species 5		Pinned	1	228	1	6/28/2007	
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 1	Tachnidae		Archytas	Species 6		Pinned	1	869	1	9/10/2007	Spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 9	Tachnidae		Archytas	Species 6		pinned	1	1962	1	5/7/2008	malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 8	Tachnidae		Archytas	Species 6		Pinned	1	678	1	7/1/2007	
YEW	Control Wetland 4	Arthropoda	Insecta	Diptera 5	Tachnidae			Species 7		Pinned	1	484	5	7/10/2007	
YEW	Control Riparian 4	Arthropoda	Insecta	Diptera 4	Tachnidae			Species 7		none			1	5/8/2008	Malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 6	Tachnidae			Species 7		Pinned	1	856	3	7/10/2007	
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera3	Tachnidae			Species 7		none			11		malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 6	Tachnidae			Species 7		none			4	5/6/2008	malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 2	Tachnidae			Species 7		Pinned		1542, 1644	3	5/11/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 7	Tachnidae			Species 8		None		510	35	6/29/2007	

YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera	Tachnidae			Species 8		Pinned	1	523	1	6/30/2007	
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera2	Tachnidae			Species 8		none			11	7/7/2008	malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 1	Tachnidae			Species 8		Pinned	3	527- 529	11	6/30/2007	
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 7	Tachnidae			Species 8		Pinned	1	294	35	6/30/2007	
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 10	Tachnidae			Species 8		Pinned	1	680	1	7/1/2007	
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera2	Tachnidae			Species 8		none			11	7/10/2008	malaise
BWNWR	Reference Riparian Cott 6	Mollusca	Insecta	Diptera 11	Tachnidae			Species 8		Pinned	1	681	2	7/1/2007	
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 12	Tachnidae			Species 9		Pinned	1	1313	1	9/16/2007	Malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 6	Tachnidae			Species 10		Pinned		1495	1	5/17/2007	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 7	Tachnidae			Species 11		Pinned	2	676- 677	3	7/1/2007	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 1	Tachnidae			Species 11		Pinned	1	632	1	7/1/2007	
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 7	Tachnidae			Species 11		none			1	5/6/2008	malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 6	Tachnidae			Species 11		Pinned	1	1143	1	9/10/2007	Malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera 7	Tachnidae			Species 11		none			1	7/11/2008	malaise
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Diptera 3	Tachnidae			Species 11		Pinned		1554	4	5/11/2007	Malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 5	Tachnidae			Species 11		Pinned		1575	2	5/11/2007	Malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 9	Tachnidae			Species 11		none			2	5/6/2008	malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 2	Tachnidae			Species 12		Pinned	2	285- 286	11	6/30/2007	
YEW	Control Riparian 4	Arthropoda	Insecta	Diptera	Tachnidae			Species 12		none			1	7/10/2008	malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera1	Tachnidae			Species 12		none			35	7/18/2008	malaise
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Diptera1	Tachnidae			Species 12		none			11	7/11/2008	malaise
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Diptera1	Tachnidae			Species 12		none			1	7/17/2008	malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera1	Tachnidae			Species 12		none			11	7/17/2008	malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera2	Tachnidae			Species 12		none			11	7/10/2008	uv
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera2	Tachnidae			Species 12		none			11	7/18/2008	malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera2	Tachnidae			Species 12		none			11	7/7/2008	malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera4	Tachnidae			Species 12		none			11	7/18/2008	malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera4	Tachnidae			Species 12		none			35	7/10/2008	malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera2	Tachnidae			Species 12		none			11	7/14/2008	malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera3	Tachnidae			Species 12		none			35	7/8/2008	malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera4	Tachnidae			Species 12		none			11	7/9/2008	malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera1	Tachnidae			Species 12		none			11	7/11/2008	malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 9	Tachnidae			Species 12		Pinned	1	513	11	6/29/2007	
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera 1	Tachnidae			Species 12		none			11	9/20/2008	malaise
YEW	Control Riparian 3	Arthropoda	Insecta	Diptera 1	Tachnidae			Species 12		none			11	9/23/2008	malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 1	Tachnidae			Species 12		none			11	9/24/2008	malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 1	Tachnidae			Species 12		none			1	10/8/2008	spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 1	Tachnidae			Species 12		none			11	10/8/2008	malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera 2	Tachnidae			Species 12		none			11	9/19/2008	malaise
BWNWR	Reference Riparian 6	Arthropoda	Insecta	Diptera 4	Tachnidae			Species 12		none			11	10/9/2008	malaise
BWNWR	Reference Riparian 2	Arthropoda	Insecta	Diptera 1	Tachnidae			Species 12		none			1	10/9/2008	malaise
BWNWR	Reference Riparian 4	Arthropoda	Insecta	Diptera 1	Tachnidae			Species 12		none			11	10/9/2008	malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera 1	Tachnidae			Species 12		none			1	9/20/2008	malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 2	Tachnidae			Species 12		none			1	9/22/2008	spot
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 6	Tachnidae			Species 12		none			35	10/8/2008	malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 2	Tachnidae			Species 12		none			35	9/22/2008	malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera1	Tachnidae			Species 12		none			11	7/18/2008	malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera1	Tachnidae			Species 12		none			11	7/14/2008	malaise

BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera2	Tachnidae				Species 12		none			1	7/18/2008	malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera2	Tachnidae				Species 12		none			1		malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera1	Tachnidae				Species 12		none			11	7/17/2008	malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera4	Tachnidae				Species 12		none			11	7/8/2008	malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera1	Tachnidae				Species 12		none			11	7/9/2008	malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 7	Tachnidae				Species 12		Pinned	1	785	9	7/2/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 11	Tachnidae				Species 12		Pinned	1	1216	2	9/13/2007	UV Light
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera2	Tachnidae				Species 12		none			1	7/7/2008	malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Diptera 1	Tachnidae				Species 12		none			35	9/20/2008	malaise
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Diptera 1	Tachnidae				Species 12		none			11	9/21/2008	malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 1	Tachnidae				Species 12		none			11	9/24/2008	malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 1	Tachnidae				Species 12		none			11	9/24/2008	malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 4	Tachnidae				Species 12		Pinned		1557	1	5/13/2007	Malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 5	Tachnidae				Species 12		Pinned	1	1142	1	9/10/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 2	Tachnidae				Species 13		Pinned	2	178- 179	2	6/28/2007	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 3	Tachnidae				Species 13		Pinned	1	180	1	6/28/2007	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 5	Tachnidae				Species 13		Pinned		1549	2	5/11/2007	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 3	Tachnidae				Species 14		pinned	2	1976, 1977	7	5/18/2008	malaise
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Diptera 2	Tachnidae				Species 15		Pinned	1	1052	1	9/13/2007	Malaise
YEW	Control Riparian 4	Arthropoda	Insecta	Diptera 1	Tachnidae				Species 16		Pinned	1	475	1	7/9/2007	
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 1	Tachnidae				Species 17		Pinned	1	284	11	6/30/2007	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 8	Tachnidae				Species 18		Pinned	2	511	35	6/29/2007	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 6	Tachnidae				Species 18		Pinned	2	508- 509	11	6/29/2007	
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 5	Tachnidae				Species 18		Pinned	2	289, 291	11	6/30/2007	
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera4	Tachnidae				Species 18		none			1	7/11/2008	malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 6	Tachnidae				Species 18		Pinned	2	292- 293	35	6/30/2007	
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 2	Tachnidae				Species 19		Pinned	1	488	11	7/10/2007	
BWNWR	Reference Riparian Cott 5	Arthropoda	Insecta	Diptera 23	Tachnidae				Species 20		Pinned		1477	1	5/11/2007	Malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 9	Tachnidae				Species 21		Pinned	1	1147	3	9/10/2007	Malaise
YEW	Control Riparian 3	Arthropoda	Insecta	Diptera 2	Tachnidae				Species 21					1	9/23/2008	malaise
BWNWR	Reference Riparian 2	Arthropoda	Insecta	Diptera 2	Tachnidae				Species 21		none			1	10/9/2008	malaise
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Diptera 4	Tachnidae				Species 21		none			1	9/21/2008	malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera 7	Tachnidae				Species 21		none			1	9/23/2008	spot
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 3	Tachnidae				Species 22		Pinned	1	230	1	6/28/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 14	Tachnidae				Species 22		Pinned	1	811	2	7/6/2007	
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 3	Tachnidae				Species 22		Pinned	1	489	9	7/10/2007	
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 7	Tachnidae				Species 22		Pinned	1	860	2	7/10/2007	
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 2	Tachnidae				Species 22		Pinned	2	772- 773	3	7/6/2007	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 2	Tachnidae				Species 22		Pinned	2	638	5	7/1/2007	
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 3	Tachnidae				Species 22		Pinned	1	774	5	7/6/2007	
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 9	Tachnidae				Species 22		Pinned	1	1309	1	9/16/2007	Malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 11	Tachnidae				Species 22		Pinned	2	808	6	7/6/2007	
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 1	Tachnidae				Species 22		none			1	9/19/2008	malaise
BWNWR	Reference Riparian 2	Arthropoda	Insecta	Diptera 3	Tachnidae				Species 22		none			11	10/9/2008	malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 12	Tachnidae				Species 22		Pinned	1	809	1	7/6/2007	
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 1	Tachnidae				Species 22		none			1	9/21/2008	malaise
YEW	Control Riparian 2	Arthropoda	Insecta	Diptera 4	Tachnidae				Species 22		none			11	9/22/2008	malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 4	Tachnidae				Species 22		none			11	10/8/2008	malaise

YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Diptera 5	Tachnidae			Species 22		none			11	9/21/2008	malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 5	Tachnidae			Species 22		none			35	10/8/2008	malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 3	Tachnidae			Species 22		none			11	9/22/2008	malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera 3	Tachnidae			Species 22		none			1	9/20/2008	malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Diptera 5	Tachnidae			Species 22		none			35	10/8/2008	malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera2	Tachnidae			Species 22		none			11	7/14/2008	malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera 2	Tachnidae			Species 22		none			1	5/5/2008	malaise
YEW	Control Riparian 4	Arthropoda	Insecta	Diptera 5	Tachnidae			Species 22		none			1	5/8/2008	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 1	Tachnidae			Species 23		Pinned		1545	3	5/13/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 5	Tachnidae			Species 23		Pinned	1	507	11	6/29/2007	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 21	Tachnidae			Species 24		Pinned		1551	1	5/11/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 4	Tachnidae			Species 25		Pinned	1	533	1	6/30/2007	
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera 6	Tachnidae			Species 25		none			15	5/5/2008	malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera 9	Tachnidae			Species 26		1		1522	3	5/14/2007	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 10	Tachnidae			Species 26		1		474	1	7/4-12/2007	
BWNWR	Reference Riparian 2	Arthropoda	Insecta	Diptera 4	Tachnidae			Species 26		pinned	1 of 2	2163	11	10/9/2008	malaise
BWNWR	Reference Riparian 4	Arthropoda	Insecta	Diptera 4	Tachnidae			Species 26		none			1	10/9/2008	malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Diptera 8	Tachnidae			Species 27		1 Pinned		1652	3	5/22/2007	Malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 6	Tachnidae			Species 28		Pinned	1	1328	2	9/17/2007	Malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 7	Tachnidae			Species 29		Pinned	1	1329	4	9/17/2007	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Diptera 9	Tachnidae			Species 30		Pinned	1	679	4	7/1/2007	

Tephritidae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera6	Tephritidae?		Species 1		pinned	1	2139	1	7/7/2008	malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera 9	Tephritidae				none		2231	1	9/19/2008	spot

Therevidae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Control Wetland 4	Arthropoda	Insecta	Diptera 4	Therevidae		Species 1		Pinned	1	1992	1	5-10 May 08	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 5	Therevidae		Species 1		Pinned	1	658	1	7/1/2007	
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 7	Therevidae		Species 2		Pinned	1	1306	2	9/16/2007	Malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 7	Therevidae		Species 2		pinned	1	1767	1	5/14/2008	Malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 18	Therevidae		Species 2		pinned		1790	1	5/17/2007	Malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera 9	Therevidae		Species 2		pinned		1793	1	5/17/2007	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 10	Therevidae		Species 2		Pinned	1	465	1	7/9/2007	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 11	Therevidae		Species 2		Pinned	1	506	1	6/29/2007	yellowish- orange
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 12	Therevidae		Species 2		Pinned	1	824	3	7/6/2007	
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera 3	Therevidae		Species 2		Pinned	1	1361	2	9/17/2007	Malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 20	Therevidae		Species 2		Pinned		1566	1	5/11/2007	UV Light
YEW	Control Riparian 5	Arthropoda	Insecta	Diptera 1	Therevidae		Species 2		Pinned		1788, 1782	4	5/14/2007	Malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 2	Therevidae		Species 2		Pinned	1	858	1	7/10/2007	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 3	Therevidae		Species 2		Pinned		1808	3	5/11/2007	UV Light
YEW	Control Wetland 4	Arthropoda	Insecta	Diptera 7	Therevidae		Species 3		pinned	2	1994-1995	2	5/9/2008	malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Diptera 4	Therevidae		Species 3		Pinned		1647, 1650, 1577, 1576	4	5/11/2007	Malaise

BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Diptera 10						Pinned	1	1058	1	9/10/2007	Spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 5						Pinned	1	1062	1	9/11/2007	Malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera 3						Pinned	1	1176	90	9/13/2007	Malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera 4						Pinned	1	1178	2	9/13/2007	Malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Diptera 2						Pinned	1	1183	1	9/14/2007	Malaise
YEW	Control Wetland 4	Arthropoda	Insecta	Diptera 7						Pinned	1	1256	4	9/15/2007	Malaise
YEW	Control Wetland 4	Arthropoda	Insecta	Diptera 9						Pinned	1	1257	1	9/15/2007	Malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera 4						None			3	9/17/2007	Malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Diptera 7						ETOH	15	1262	15	9/14/2007	Malaise
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Diptera						Pinned		1576	1	5/11/2007	Malaise
YEW	Control Riparian 5	Spot Collection: None	Insecta	Diptera5						pinned	1	2104	1	7/14/2008	malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera 8						none			1	9/19/2008	malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Diptera 3						none			1	9/19/2008	malaise
BWNWR	Reference Riparian 2	Arthropoda	Insecta	Diptera 4						pinned	2 of 2	2164	11	10/9/2008	malaise
YEW	Control Riparian 4	Arthropoda	Insecta	Diptera 6						pinned	1	2169	1	9/23/2008	malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Diptera 4						none			11	9/22/2008	malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera 6						pinned	1 of 2	2184		9/23/2008	malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 7						none			1	9/24/2008	mlaise
YEW	Control Riparian 2	Arthropoda	Insecta	Diptera 5						none			11	9/22/2008	uv
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Diptera 6						none			11	9/21/2008	uv
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Diptera 8						none			11	10/8/2008	malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera 6						pinned	2 of 2	2185		9/23/2008	malaise
BWNWR	Reference Riparian 4	Arthropoda	Insecta	Diptera 10						pinned	1 of 2	2209	11	10/9/2008	malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Diptera 4						none			11	10/8/2008	malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 5						ETOH			11	5/13/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 6						ETOH			76	5/13/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 7						ETOH			11	5/13/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 8						ETOH			35	5/13/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Diptera 9						ETOH			3	5/13/2007	Malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 1						ETOH				5/13/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 2						ETOH				5/13/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 3						ETOH				5/13/2007	UV Light
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Diptera 3						none			4	5/5/2008	malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 2						none			76	5/9/2008	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Diptera 10						none			37	5/9/2008	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 11						none			17	5/9/2008	Malaise

Ephemeroptera

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Ephemeroptera						ETOH	1	314	1	7/2/2007	
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Ephemeroptera						ETOH	3	344	3	7/2/2007	
YEW	Restored Wetland 1	Arthropoda	Insecta	Ephemeroptera						ETOH	1	355	1	7/4/2007	
YEW	Control Wetland 4	Arthropoda	Insecta	Ephemeroptera						ETOH	2	755	2	7/10/2007	Mayfly larvae
YEW	Restored Wetland 1	Arthropoda	Insecta	Ephemeroptera						ETOH	1	1031	1	9/14/2007	Spot
YEW	Adjacent Ag 5	Arthropoda	Insecta	Ephemeroptera						ETOH	1	1349	1	9/18/2007	Spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Ephemeroptera						etoh	3	1875	3	5/7/2008	spot

Hemiptera

Corixidae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Wetland 4	Arthropoda	Insecta	Hemiptera	Corixidae				ETOH	2	324	2	7/4/2007	
YEW	Restored Wetland 2	Arthropoda	Insecta	Hemiptera	Corixidae 1				ETOH	2	328	2	7/4/2007	
YEW	Restored Wetland 2	Arthropoda	Insecta	Hemiptera	Corixidae 2				ETOH	1	329	1	7/4/2007	
YEW	Restored Wetland 1	Arthropoda	Insecta	Hemiptera	Corixidae				ETOH	1	356	1	7/4/2007	
YEW	Restored Wetland 1	Arthropoda	Insecta	Hemiptera	Corixidae				ETOH	5	1872	5	5/7/2008	spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Hemiptera 3	Corixidae				pinned		2205	76	9/20/2008	uv

Gelastocoridae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hemiptera	Gelastocoridae				Pinned	1	498	1	7/1/2007	toad bug

Gerridae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Wetland 1	Arthropoda	Insecta	Hemiptera	Gerridae				ETOH	1	357	1	7/4/2007	
YEW	Control Wetland 4	Arthropoda	Insecta	Hemiptera	Gerridae				ETOH	1	753	1	7/10/2007	water strider
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Hemiptera	Gerridae 1				ETOH	3	305	3	7/2/2007	
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Hemiptera	Gerridae 2				ETOH	2	341	2	7/2/2007	
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Hemiptera	Gerridae 3				ETOH	1	345	1	7/2/2007	
YEW	Control Wetland 2	Arthropoda	Insecta	Hemiptera	Gerridae				ETOH	2	1965	2	5/9/2008	spot
YEW	Control Wetland 4	Arthropoda	Insecta	Hemiptera	Geridae				ETOH	1	2038	1	7/9/2008	spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Hemiptera 1	Geridae				ETOH		2245	1	10/8/2008	spot

Lygaeidae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hemiptera	Lygaeidae		Species 1		Pinned		1736	1	5/11/2007	Spot
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hemiptera	Lygaeidae		Species 1		none			11	7/10/2008	uv
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hemiptera	Lygaeidae		Species 2		Pinned		1736	1	5/11/2007	Spot
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hemiptera	Lygaeidae		Species 2		none			11	7/10/2008	uv

Miridae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hemiptera 1	Miridae		Species 1		pinned	1	2046	1	7/8/2008	malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hemiptera	Miridae		Species 2		pinned	1	1960	1	5/7/2008	uv
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hemiptera 2	Miridae		Species 2		none			11	9/21/2008	uv
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hemiptera 3	Miridae		Species 2		Pinned	1	1958	5	5/7/2008	uv
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hemiptera 4	Miridae		Species 3		Pinned	1	978	1	9/12/2007	UV Light

Nambidae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
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YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hemiptera	Nabidae			Species 1		Pinned	1	1215	2	9/13/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hemiptera2	Nabidae			Species 1		pinned	2 of 3	2114	11	7/8/2008	uv
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hemiptera 2	Nabidae			Species 1		none			11	9/24/2008	uv
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hemiptera2	Nabidae			Species 1		pinned	3 of 3	2115	11	7/8/2008	uv

Naucoridae

Site	Location	Phylum	Class	Order	Family			Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Wetland 2	Arthropoda	Insecta	Hemiptera	Naucoridae						etoh	4	1874	3	5/7/2008	spot

Nepidae

Site	Location	Phylum	Class	Order	Family			Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Wetland 1	Arthropoda	Insecta	Hemiptera	Nepidae						ETOH	1	2086	1	7/11/2008	spot

Notonectidae

Site	Location	Phylum	Class	Order	Family			Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Wetland 2	Arthropoda	Insecta	Hemiptera	Notonectidae						etoh	6	1876	6	5/7/2008	spot
YEW	Control Wetland 2	Arthropoda	Insecta	Hemiptera	Notonectidae						ETOH	1	1966	1	5/9/2008	spot
YEW	Control Wetland 2	Arthropoda	Insecta	Hemiptera1	Notonectidae						ETOH	1	2040	1	7/9/2008	spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Hompotera	Notonectidae						ETOH	1	957	1	9/11/2007	Spot

Pentatomidae

Site	Location	Phylum	Class	Order	Family			Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Control Wetland 3	Arthropoda	Insecta	Hemiptera1	Pentatomidae				Species 1		pinned	2 of 2	2066	1	7/9/2008	uv
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hemiptera 1	Pentatomidae				Species 1		none			11	9/24/2008	uv
YEW	Control Wetland 3	Arthropoda	Insecta	Hemiptera3	Pentatomidae				Species 1		pinned	1 of 2	2065	1	7/9/2008	uv
BWNWR	Reference Riparian 4	Arthropoda	Insecta	Hemiptera4	Pentatomidae				Species 1		none			1	10/9/2008	uv
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hemiptera 1	Pentatomidae				Species 1		none			11	9/21/2008	uv
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hemiptera 2	Pentatomidae				Species 2		Pinned	1	1341	1	9/18/2007	Spot

Reduviidae

Site	Location	Phylum	Class	Order	Family			Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Hemiptera	Reduviidae				Species 1		Pinned	1	975	1	9/13/2007	Spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Hemiptera	Reduviidae				Species 1		Pinned	1	1108	1	9/13/2007	
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hemiptera	Reduviidae				Species 2		Pinned	1	499	1	7/1/2007	
YEW	Control Riparian 2	Arthropoda	Insecta	Hemiptera	Reduviidae				Species 3		Pinned	1	593	1	7/3/2007	
BWNWR	Reference Riparian 4	Arthropoda	Insecta	Hemiptera 1	Reduviidae				Species 3		none			1	10/9/2008	uv
YEW	Restored Wetland 1	Arthropoda	Insecta	Hemiptera2	Reduviidae				Species 3		pinned	1	2054	1	7/10/2008	uv

Site	Location	Phylum	Class	Order	Family			Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hemiptera 1							ETOH	9	604	11	6/30/2007	tan and skinny

YEW	Adjacent Ag 1	Arthropoda	Insecta	Hemiptera 2						ETOH	3	612	11	6/30/2007	
YEW	Control Wetland 4	Arthropoda	Insecta	Hemiptera 1						ETOH	2	752	2	7/10/2007	
YEW	Control Wetland 4	Arthropoda	Insecta	Hemiptera 3						ETOH	3	754	3	7/10/2007	
YEW	Restored Wetland 2	Arthropoda	Insecta	Hemiptera						Pinned		1617	1	5/14/2007	Spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hemiptera1						pinned	1	2061	1	7/18/2008	spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hemiptera2						none			1	7/18/2008	spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hemiptera2						pinned	1of 3	2113	11	7/8/2008	uv

Homoptera

Aetallonidae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Adjacent Ag 1	Arthropoda	Insecta	Homoptera	Aetallonidae		Species 1		Pinned		1724	1	5/13/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Homoptera 7	Aetallonidae		Species 1		Pinned	1	1344	3	9/18/2007	Spot
YEW	Adjacent Ag 5	Arthropoda	Insecta	Homoptera 8	Aetallonidae		Species 1		Pinned		1725, 1728	2	5/13/2007	Spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Homoptera 1	Aetallonidae				Pinned	2	430- 431	2	6/30/2007	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Homoptera 1	Aetallonidae				none			1	9/21/2008	malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Homoptera 2	Aetallonidae				3 Pinned		1732, 1731, 1730	4	5/13/2007	Malaise

Aphididae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hemiptera	Aphididae				ETOH			1	5/13/2007	Spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Homoptera 2	Aphididae				Pinned	1	1171	1	9/13/2007	Malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Homoptera2	Aphididae				none			11	7/9/2008	uv
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Homoptera 1	Aphididae				none			1	5/5/2008	malaise
YEW	Control Riparian 2	Arthropoda	Insecta	Homoptera 1	Aphididae				none			8	5/5/2008	uv

Cicadidae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Homoptera	Cicadidae				Pinned	1	492	1	7/1/2007	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Homoptera	Cicadidae				none			1	7/11/2008	spot
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Homoptera	Cicadidae 1				Pinned	1	202	1	7/1/2007	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Homoptera4	Cicadidae 2				none			1	7/17/2008	spot
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Homoptera	Cicadidae 2				Pinned	1	652	1	7/1/2007	
YEW	Control Riparian 4	Arthropoda	Insecta	Homoptera	Cicadidae				pinned	1of2	2051	2	7/10/2008	Spot
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Homoptera1	Cicadidae				none			1	7/17/2008	spot
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Homoptera3	Cicadidae				none			1	7/17/2008	spot
YEW	Control Riparian 4	Arthropoda	Insecta	Homoptera	Cicadidae				pinned	2of2	2052	2	7/10/2008	Spot

Cicadellidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Homoptera 3	Cicadellidae	Cixiidae		Species 1		Pinned	1	1169	1	9/13/2007	Malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Homoptera 2	Cicadellidae	Cixiidae		Species 1		Pinned	1	907	3	9/9/2007	UV Light
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Homoptera 3	Cicadellidae	Cixiidae		Species 2		Pinned		1735, 1734	2	5/15/2007	Malaise
BWNWR	Reference Riparian 2	Arthropoda	Insecta	Homoptera 4	Cicadellidae	Cixiidae		Species 2		none			11	10/9/2008	malaise

BWNWR	Reference Riparian 6	Arthropoda	Insecta	Homoptera 5	Cicadellidae	Cixiidae		Species 2		none			11	10/9/2008	malaise
YEW	Control Riparian 4	Arthropoda	Insecta	Homoptera 6	Cicadellidae	Cixiidae		Species 2		none			11	7/10/2008	malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Homoptera 1	Cicadellidae	Cixiidae		Species 2		Pinned	1	1170	1	9/13/2007	Malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Homoptera 5	Cicadellidae	Cixiidae		Species 2		Pinned	1	1214	10	9/13/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Homoptera 6	Cicadellidae	Cixiidae		Species 2		None			1	9/17/2007	Malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Homoptera 1	Cicadellidae	Fulgoridae				Pinned	1	1195	2	9/14/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Homoptera 1	Cicadellidae 1	Typhocybinae?				Pinned	3	148- 150	11	6/29/2007	
YEW	Adjacent Ag 5	Arthropoda	Insecta	Homoptera 2	Cicadellidae 0	Typhocybinae?				Pinned	1	1319	1	9/18/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Homoptera 6	Cicadellidae 1	Typhocybinae?				Pinned	2	614 and 615	2	6/30/2007	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Homoptera 1	Cicadellidae 2	Typhocybinae?				Pinned	4	186- 189	11	6/28/2007	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Homoptera 2	Cicadellidae 3	Typhocybinae?				Pinned	1	1087	4	9/15/2007	UV Light
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hemiptera	Cicadellidae 4	Typhocybinae?				Pinned		1718, 1717	3	5/13/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hemiptera	Cicadellidae 3	Typhocybinae?				Pinned		1720	1	5/13/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hemiptera	Cicadellidae 3	Typhocybinae?				Pinned		1713, 1721, 1722	3	5/13/2007	Spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hemiptera	Cicadellidae 2	Typhocybinae?				Pinned		1726	1	5/13/2007	Malaise
YEW	Control Riparian 2	Arthropoda	Insecta	Homoptera 1	Cicadellidae 3	Typhocybinae?				Pinned	1	599	1	7/3/2007	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Homoptera 2	Cicadellidae 4	Typhocybinae?				Pinned	1	154	1	6/29/2007	
YEW	Control Wetland 3	Arthropoda	Insecta	Homoptera 3	Cicadellidae 5	Typhocybinae?				ETOH	abundant	283	150	7/3/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Homoptera 2	Cicadellidae 6	Typhocybinae?				ETOH	2	550	2	7/6/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Homoptera 3	Cicadellidae 7	Typhocybinae?				ETOH	5	1212	5	9/13/2007	UV Light
YEW	Adjacent Ag 5	Arthropoda	Insecta	Homoptera	Cicadellidae 5	Typhocybinae?				Pinned		1727, 1715, 1716	3	5/13/2007	Spot
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Homoptera	Cicadellidae 6	Typhocybinae?				pinned	1	2085	1	7/8/2008	uv
YEW	Adjacent Ag 2	Arthropoda	Insecta	Homoptera	Cicadellidae 8	Typhocybinae?				Pinned	1	432	1	6/30/2007	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Homoptera	Cicadellidae 9	Typhocybinae?				Pinned	1	1353	3	9/18/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Homoptera	Cicadellidae 7	Typhocybinae?				none			35	7/8/2008	uv
YEW	Control Wetland 3	Arthropoda	Insecta	Homoptera	Cicadellidae 8	Typhocybinae?				none			1	7/9/2008	uv
YEW	Restored Wetland 1	Arthropoda	Insecta	Homoptera 1	Cicadellidae	Sub-Family: #2				Pinned	1	164	1	6/29/2007	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Homoptera 2	Cicadellidae	Sub-Family: #2				Pinned	2	198- 199	2	6/28/2007	
YEW	Restored Wetland 1	Arthropoda	Insecta	Homoptera 3	Cicadellidae	Sub-Family: #2				Pinned		1723	1	5/12/2007	UV light
YEW	Control Riparian 2	Arthropoda	Insecta	Homoptera 1	Cicadellidae	Sub-Family: #2				Pinned	1	1154	4	9/14/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Homoptera2	Cicadellidae	Sub-Family: #2				none			11	7/8/2008	uv
YEW	Restored Wetland 4	Arthropoda	Insecta	Homoptera	Cicadellidae	Sub-Family: #2				Pinned	1	437	1	7/4/2007	
YEW	Control Riparian 2	Arthropoda	Insecta	Homoptera 2	Cicadellidae	Sub-Family: #2				Pinned	1	600	1	7/3/2007	
YEW	Restored Wetland 1	Arthropoda	Insecta	Homoptera 7	Cicadellidae	Sub-Family: #2				none			11	9/20/2008	uv
YEW	Control Wetland 3	Arthropoda	Insecta	Homoptera 1	Cicadellidae	Sub-Family: #2				Pinned	2	271- 272	11	7/3/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Homoptera 4	Cicadellidae	Sub-Family: #2				Pinned	1	1213	35	9/13/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Homoptera1	Cicadellidae	Sub-Family: #2				none			11	7/9/2008	uv
YEW	Adjacent Ag 5	Arthropoda	Insecta	Homoptera	Cicadellidae	Sub-Family: #2				Pinned	2	213- 214	2	6/30/2007	
YEW	Restored Wetland 1	Arthropoda	Insecta	Homoptera	Cicadellidae	Sub-Family: #2				Pinned on point		1729	2	5/12/2007	
YEW	Restored Wetland 1	Arthropoda	Insecta	Homoptera 1	Cicadellidae	Sub-Family: #3				Pinned	1	1130	1	9/13/2007	UV Light
YEW	Adjacent Ag 5	Arthropoda	Insecta	Homoptera 1	Cicadellidae	Sub-Family: #3				None			5	9/18/2007	Spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Homoptera 1	Cicadellidae	Sub-Family: #3				none			11	9/24/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Homoptera 3	Cicadellidae	Sub-Family: #3				none			1	9/22/2008	uv
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hemiptera	Cicadellidae 2	Sub-Family: #3				Pinned		1719	1	5/13/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Homoptera 11	Cicadellidae	Sub-Family: #4				Pinned	1	1359	1	9/18/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Homoptera 1	Cicadellidae	Sub-Family: #5				Pinned	1	1086	2	9/15/2007	UV Light

YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Homoptera 2	Cicadellidae	Sub-Family: #5				None			1	9/17/2007	Malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Homoptera 2	Cicadellidae	Sub-Family: #6				pinned	1	2234	1	9/19/2008	spot
YEW	Control Wetland 3	Arthropoda	Insecta	Homoptera1	Cicadellidae	Sub-Family: #7				pinned	1	2067	1	7/9/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Homoptera2	Cicadellidae	Sub-Family: #7				none			1	7/10/2008	malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Homoptera 1	Cicadellidae	Sub-Family: #7				none			1	9/20/2008	uv
YEW	Restored Wetland 1	Arthropoda	Insecta	Homoptera	Cicadellidae	Sub-Family: #7				pinned	1	2053	1	7/10/2008	uv
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Homoptera1	Cicadellidae	Sub-Family: #7				none			1	7/17/2008	uv
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Homoptera1	Cicadellidae	Sub-Family: #8				pinned	1 of 2	2132	1	7/18/2008	uv
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Homoptera2	Cicadellidae	Sub-Family: #8				none			1	7/17/2008	malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Homoptera1	Cicadellidae	Sub-Family: #8				pinned	2 of 2	2133	1	7/18/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Homoptera 1	Cicadellidae	Sub-Family: #8				none			1	9/22/2008	malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Homoptera 2	Cicadellidae	Sub-Family: #8				none			1	9/19/2008	uv
BWNWR	Reference Riparian 2	Arthropoda	Insecta	Homoptera 2	Cicadellidae	Sub-Family: #9				pinned	1	2207		10/9/2008	malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Homoptera 1	Cicadellidae	Sub-Family: #9				none			11	10/8/2008	malaise
BWNWR	Reference Riparian 4	Arthropoda	Insecta	Homoptera 1	Cicadellidae	Sub-Family: #9				none			1	10/9/2008	malaise

Flatidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Control Wetland 3	Arthropoda	Insecta	Homoptera 2	Flatidae					Pinned	1	273	1	7/3/2007	
YEW	Control Riparian 2	Arthropoda	Insecta	Homoptera 2	Flatidae					Pinned	1	1157	1	9/14/2007	UV Light

Unknown because it was torn in 1/2, but different from others

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Homoptera						Pinned		1737	1	5/11/2007	Spot

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Homoptera1						none			11	7/8/2008	uv
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Homoptera 1						ETOH	1	332	1	7/1/2007	
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Homoptera 1						ETOH	1	376	1	7/5/2007	
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Homoptera 2						ETOH	1	377	1	7/5/2007	
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Homoptera 3						ETOH	1	378	1	7/5/2007	
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Homoptera 4						ETOH	1	380	1	7/5/2007	
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Homoptera						ETOH	5	960	5	9/11/2007	Spot
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Homoptera 2						ETOH	1	968	1	9/11/2007	Spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Homoptera 3						Pinned	1	1172	1	9/13/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Homoptera 4						Pinned	1	1291	3	9/18/2007	Spot
YEW	Restored Wetland 4	Arthropoda	Insecta	Homoptera						Pinned		1733	2	5/14/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hemiptera						ETOH			2	5/13/2007	Spot
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Homoptera						pinned	1	2071	1	7/11/2008	malaise
YEW	Control Riparian 2	Arthropoda	Insecta	Homoptera 2						none			1	9/22/2008	uv
YEW	Adjacent Ag 2	Arthropoda	Insecta	Homoptera 2						none			11	9/24/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Homoptera3						pinned	2	2134	11	7/10/2008	malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Homoptera 1						none			1	9/23/2008	malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Homoptera 1						none			1	9/19/2008	malaise

YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Homoptera 1						none			1	9/19/2008	uv
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Homoptera 2						none			11	9/21/2008	uv
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Homoptera1						none			11	7/10/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Homoptera3						pinned	2	2135	11	7/10/2008	malaise

Hymenoptera

Andrenidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Wetland 2	Arthropoda	Insecta	Hymenoptera 5	Andrenidae			Species 1		pinned	1	1984	1	5/7/2008	malaise

Apidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera 3	Apidae		Apis	mellifera		Pinned	1	764	1	7/6/2007	
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera	Apidae		Apis	mellifera		Pinned	2	1272; 1273	2	9/17/2007	Spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hymenoptera 1	Apidae					Pinned	1		1	9/18/2007	Spot
YEW	Control Riparian 3	Arthropoda	Insecta	Hymenoptera 1	Apidae		Apis	mellifera		none			1	9/23/2008	malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Hymenoptera 1	Apidae		Apis	mellifera		none			1	9/22/2008	spot
YEW	Control Riparian 4	Arthropoda	Insecta	Hymenoptera 1	Apidae		Apis	mellifera		none			1	9/23/2008	malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera	Apidae		Apis	mellifera		Pinned	2	206- 207	2	6/30/2007	
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera	Apidae		Apis	mellifera		Pinned	2	393, 394	2	7/4/2007	
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera	Apidae		Apis	mellifera		Pinned	2	538- 539	2	7/1/2007	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera	Apidae 2		Apis	mellifera		Pinned	2	653- 654	2	7/1/2007	
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Hymenoptera3	Apidae 3		Apis	mellifera		none			1	7/14/2008	spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Hymenoptera	Apidae		Apis	mellifera		Pinned	2	706, 707	8	7/2/2007	
YEW	Control Wetland 4	Arthropoda	Insecta	Hymenoptera3	Apidae		Apis	mellifera		none			1	7/9/2008	malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera	Apidae		Apis	mellifera		Pinned	2	868, 867	2	9/10/2007	Spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hymenoptera	Apidae		Apis	mellifera		Pinned	1	424	1	6/30/2007	
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Hymenoptera1	Apidae		Apis	mellifera		none			1	7/18/2008	malaise
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera	Apidae		Apis	mellifera		Pinned	1	433	1	7/5/2007	
YEW	Control Wetland 2	Arthropoda	Insecta	Hymenoptera	Apidae		Apis	mellifera		Pinned	1	451	1	7/10/2007	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera	Apidae 1		Apis	mellifera		Pinned	1	631	1	7/1/2007	
YEW	Control Wetland 4	Arthropoda	Insecta	Hymenoptera	Apidae		Apis	mellifera		Pinned	1	775	1	7/10/2007	
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera	Apidae		Apis	mellifera		Pinned	1	875	1	9/10/2007	Spot
YEW	Restored Wetland 4	Arthropoda	Insecta	Hymenoptera 1	Apidae		Apis	mellifera		Pinned	1	1042	1	9/14/2007	Spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hymenoptera	Apidae		Apis	mellifera		Pinned		1508	1	5/13/2007	Malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 6	Apidae		Apis	mellifera		Pinned	1	419	1	7/5/2007	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 11	Apidae		Apis	mellifera		Pinned	2	608- 609	2	6/30/2007	bees
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera	Apidae		Apis	mellifera		Pinned	1	493	1	7/1/2007	
YEW	Control Riparian 4	Arthropoda	Insecta	Hymenoptera	Apidae		Apis	mellifera		Pinned	1	665	1	7/9/2007	
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera	Apidae		Apis	mellifera		Pinned	1	840	1	7/9/2007	
YEW	Control Wetland 3	Arthropoda	Insecta	Hymenoptera	Apidae		Apis	mellifera		Pinned		1494	1	5/21/2007	Spot
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 3	Apidae		Apis	mellifera		Pinned		1531	4	5/12/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 8	Apidae		Apis	mellifera		Pinned	1	1355	1	9/18/2007	Spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 9	Apidae		Apis	mellifera		Pinned	1	1099	1	9/20/2007	
YEW	Control Riparian 4	Arthropoda	Insecta	Hymenoptera	Apidae		Apis	mellifera		none			1	7/10/2008	Spot

YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera 1	Apidae	Xylocopidae	Xylocopa	Species		Pinned	1	208	1	6/30/2007	large black bumble bee
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 7	Apidae			Species 1		pinned	1	1969	2	5/7/2008	Malaise
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 8	Apidae			Species 1		pinned	1	1970	1	5/7/2008	Malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 9	Apidae			Species 1		pinned	1	1957	1	5/6/2008	malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera	Apidae		Triepeolus	sp.		pinned	1	1109	1	9/13/2007	UV Light
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 6	Apidae		Triepeolus	sp.		Pinned	1	1240	1	9/14/2007	Spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Hymenoptera 1	Apidae	Euricini (tribe)				Pinned	1	626	1	7/4/2007	
YEW	Restored Wetland 2	Arthropoda	Insecta	Hymenoptera	Apidae 3			Species 2		Pinned		1555	1	5/14/2007	Spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 1	Apidae 4			Species 2		none			1	5/5/2008	malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera 6	Apidae 2					Pinned		1497	1	5/17/2007	Malaise

Brachonidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera	Brachonidae			Species 1		pinned	1	2045	1	7/8/2008	malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hymenoptera 2	Brachonidae			Species 2		Pinned	1	1290	1	9/18/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 3	Brachonidae			Species 2		none			1	7/8/2008	malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hymenoptera 1	Brachonidae			Species 2		none			11		malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera 1	Brachonidae			Species 2		none			35	7/8/2008	malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 13	Brachonidae			Species 2		Pinned	1	1371	27	9/18/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera 14	Brachonidae			Species 2		None			6	9/18/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hymenoptera 4	Brachonidae			Species 2		None			12	9/18/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 8	Brachonidae			Species 2		Pinned	1	522	4	6/29/2007	
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera 3	Brachonidae			Species 2		Pinned	1	401	1	6/30/2007	
YEW	Restored Wetland 4	Arthropoda	Insecta	Hymenoptera 1	Brachonidae			Species 2		none			11	9/20/2008	malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hymenoptera 1	Brachonidae			Species 2		none			11	9/24/2008	malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera 2	Brachonidae			Species 2		none			1	9/24/2008	malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Hymenoptera 3	Brachonidae			Species 2		none			1	9/22/2008	malaise
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Hymenoptera 3	Brachonidae			Species 2		none			1	9/21/2008	malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Hymenoptera 3	Brachonidae			Species 2		none			1	9/19/2008	malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 1	Brachonidae			Species 2		none			1	9/24/2008	malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hymenoptera 2	Brachonidae			Species 3		Pinned	1	524	1	6/30/2007	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Hymenoptera 4	Brachonidae			Species 3		none			1	7/18/2008	malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 6	Brachonidae			Species 3		Pinned	1	1350	3	9/18/2007	Spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hymenoptera 6	Brachonidae			Species 3		Pinned	1	1377	2	9/18/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera 4	Brachonidae			Species 3		None			3	9/18/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 5	Brachonidae			Species 3		Pinned	1	1842	1	9/13-20/07	
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 1	Brachonidae			Species 3		none			1	9/23/2008	spot
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 2	Brachonidae			Species 3		none			1	9/21/2008	spot
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Hymenoptera 4	Brachonidae			Species 3		none			1	9/19/2008	spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 1	Brachonidae			Species 3		none			1	9/23/2008	malaise
BWNWR	Reference Riparian 2	Arthropoda	Insecta	Hymenoptera 4	Brachonidae			Species 3		none			1	10/9/2008	malaise
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 10	Brachonidae			Species 4		Pinned	2	1114 and 1115	2	9/13/2007	Spot
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera 5	Brachonidae			Species 5		Pinned	1	1287	1	9/17/2007	Malaise
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 4	Brachonidae			Species 6		Pinned	1	360	1	7/1/2007	small black wasp
YEW	Control Wetland 3	Arthropoda	Insecta	Hymenoptera 7	Brachonidae		Cotesia	sp. 1		Pinned	1	859	1	7/10/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 9	Brachonidae		Cotesia	sp. 1		Pinned	1	818	1	7/6/2007	black wasp

YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 3	Brachonidae		Cotesia	sp. 1		Pinned		1692	1	5/14/2007	Malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Hymenoptera 13	Brachonidae		Cotesia	sp. 1		pinned	1	2141	1	7/7/2008	spot
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Hymenoptera 4	Brachonidae		Cotesia	sp. 1		Pinned	1	1763	3	5/15/2008	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Hymenoptera 2	Brachonidae		Cotesia	sp. 1		none			8	5/15/2008	Malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 4	Brachonidae		Cotesia	sp. 2		Pinned		1811	1	5/14/2007	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 4	Brachonidae			Species 7		Pinned	2	540- 541	9	7/1/2007	
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 1	Brachonidae			Species 7		none			2	5/14/2008	malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Hymenoptera 6	Brachonidae			Species 7		none			3	5/15/2008	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Hymenoptera 8	Brachonidae			Species 7		none			11	5/15/2008	Malaise

Bradynobaenidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 4	Bradynobaenidae			Species 1		Pinned	2	692	11	7/1/2007	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 6	Bradynobaenidae			Species 2		Pinned	1	986	5	9/12/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 7	Bradynobaenidae			Species 3		1 pinned		1792	5	5/11/2007	UV Light
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 11	Bradynobaenidae			Species 4		Pinned		1775	1	5/12/2007	UV light

Cephididae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 8	Cephididae			Species 1		Pinned	2	797- 798	4	7/5/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 12	Cephididae			Species 1		none			1	7/7/2008	malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Hymenoptera	Cephididae			Species 1		1		1789	2	5/14/2007	Spot
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera	Cephididae			Species 1		Pinned	1	1149	2	9/10/2007	Malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Hymenoptera	Cephididae			Species 1		None			1	9/14/2007	Malaise
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 3	Cephididae			Species 1		Pinned	1	1051	1	9/13/2007	Malaise

Ceraphronidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Control Wetland 3	Arthropoda	Insecta	Hymenoptera 2	Ceraphronidae			Species 1		ETOH	11	289	11	7/3/2007	small black wasp

Chalcididae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 18	Chalcididae			Species 1		Pinned	1	826	1	7/6/2007	bee
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Hymenoptera 4	Chalcididae			Species 2		Pinned	1	1365	1	9/17/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera 6	Chalcididae			Species 3		Pinned	1	1380	1	9/18/2007	Malaise

Crabronidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 4	Crabronidae		Bembix	sp.		Pinned	1	883	1	9/10/2007	Spot
YEW	Control Wetland 4	Arthropoda	Insecta	Hymenoptera 1	Crabronidae		Bembix	sp.		none			1	7/9/2008	malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hymenoptera 2	Crabronidae		Bembix	sp.		none			1	7/18/2008	spot
Yew	Control Wetland 2	Arthropoda	Insecta	Hymenoptera 2	Crabronidae	Philanthinae	Philanthinus	sp.		pinned	1	2110	1	7/9/2008	spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 3	Crabronidae		Tachytes	Species 1		pinned	1	2080	1	7/10/2008	malaise

YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera10	Crabronidae		Tachytes	Species 1		pinned	1	2084	1	7/10/2008	malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 13	Crabronidae		Tachytes	Species 1		Pinned	1	822	1	7/6/2007	red
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Hymenoptera 1	Crabronidae		Tripoxilon	Species 1		Pinned	1	779	2	7/2/2007	
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 5	Crabronidae		Tripoxilon	Species 1		Pinned	1	914	1	9/10/2007	Malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 14	Crabronidae		Tripoxilon	Species 1		Pinned	1	823	3	7/6/2007	all black
YEW	Restored Wetland 2	Arthropoda	Insecta	Hymenoptera 2	Crabronidae		Tripoxilon	Species 1		none			4	5/7/2008	malaise
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 3	Crabronidae		Tripoxilon	Species 1		2 Pinned		1799, 1798	5	5/11/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Hymenoptera 4	Crabronidae		Tripoxilon	Species 1		none			3	5/15/2008	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 1	Crabronidae		Tripoxilon	Species 1		none			18	5/14/2008	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Hymenoptera 3	Crabronidae		Tripoxilon	Species 1		none		0	2	5/15/2008	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Hymenoptera 9	Crabronidae		Tripoxilon	Species 1		none			11	5/15/2008	Malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 10	Crabronidae		Tripoxilon	Species 1		Pinned	2	636- 637	7	7/1/2007	
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 11	Crabronidae		Tripoxilon	Species 1		none			1	5/14/2008	Malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 12	Crabronidae		Tripoxilon	Species 1		pinned	1	2138	1	7/7/2008	malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 13	Crabronidae		Tripoxilon	Species 1		none			1	9/19/2008	malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Hymenoptera 5	Crabronidae			Species 1		Pinned	1	1185	2	9/14/2007	Malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera8	Crabronidae			Species 1		none			11	7/10/2008	malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Hymenoptera 4	Crabronidae			Species 1		Pinned	1	1184	1	9/14/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hymenoptera 3	Crabronidae			Species 1		None			3	9/18/2007	Malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 4	Crabronidae			Species 1		Pinned	1	1145	22	9/10/2007	Malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Hymenoptera 3	Crabronidae			Species 1		None			2	9/14/2007	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 3	Crabronidae			Species 1		Pinned	1	922	7	9/10/2007	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 2	Crabronidae			Species 1		Pinned	1	921	12	9/10/2007	Malaise
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 6	Crabronidae			Species 1		Pinned	1	915	4	9/10/2007	Malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 2	Crabronidae			Species 1		Pinned	1	906	2	9/9/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera	Crabronidae			Species 1		Pinned	1	237	1	6/28/2007	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera	Crabronidae			Species 1		Pinned	2	633- 634	2	7/1/2007	
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 1	Crabronidae			Species 1		none			1	9/20/2008	malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Hymenoptera 2	Crabronidae			Species 1		none			1	9/20/2008	malaise
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Hymenoptera 2	Crabronidae			Species 1		none			1	9/21/2008	malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Hymenoptera 2	Crabronidae			Species 1		none			1	9/22/2008	malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hymenoptera 3	Crabronidae			Species 1		Pinned	2	534- 535	2	6/30/2007	
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera1	Crabronidae			Species 1		none			11	7/17/2008	malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera4	Crabronidae			Species 1		none			11	7/17/2008	malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera2	Crabronidae			Species 1		none			11	7/8/2008	malaise
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera	Crabronidae			Species 1		none			11	7/11/2008	malaise
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 3	Crabronidae			Species 2		Pinned	1	1050	11	9/13/2007	Malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera2	Crabronidae			Species 2		none			11	7/10/2008	malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera 5	Crabronidae			Species 2		None			1	9/18/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 10	Crabronidae			Species 2		None			8	9/18/2007	Malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera 1	Crabronidae			Species 3		Pinned	3	759- 761	4	7/6/2007	
YEW	Control Riparian 5	Arthropoda	Insecta	Hymenoptera 2	Crabronidae			Species 3		Pinned	1	1310	1	9/16/2007	Malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 3	Crabronidae			Species 3		Pinned	2	414- 415	2	7/5/2007	large wasp
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Hymenoptera2	Crabronidae			Species 3		none			1	7/7/2008	malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera9	Crabronidae			Species 3		none			1	7/7/2008	spot
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Hymenoptera 1	Crabronidae			Species 3		Pinned	2	1265, 1266	2	9/17/2007	Spot
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Hymenoptera11	Crabronidae			Species 3		none			1	7/7/2008	spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 6	Crabronidae			Species 3		pinned		2196	1	9/23/2008	spot

YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 12	Crabronidae			Species 4		Pinned	1	616	1	6/30/2007	
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera	Crabronidae			Species 4		Pinned	1	400	1	6/30/2007	
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Hymenoptera 1	Crabronidae	Larrini (tribe)		Species 5		Pinned	1	793	1	7/5/2007	orange abdomen
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera2	Crabronidae	Larrini (tribe)		Species 5		none			1	7/17/2008	malaise
YEW	Control Wetland 4	Arthropoda	Insecta	Hymenoptera 2	Crabronidae	Larrini (tribe)		Species 5		pinned	1	1991	5	5/9/2008	malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera 4	Crabronidae	Larrini (tribe)		Species 6		Pinned		1535	1	5/17/2007	Malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Hymenoptera 3	Crabronidae	Larrini (tribe)		Species 6		none			2	5/7/2008	malaise
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 3	Crabronidae	Larrini (tribe)		Species 7		Pinned	1	359	1	7/1/2007	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera	Crabronidae			Species 8		Pinned		1514	1	5/15/2007	Malaise
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Hymenoptera1	Crabronidae			Species 9		pinned	1	2101	1	7/14/2008	malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Hymenoptera 2	Crabronidae			Species 10		Pinned	1	1307	1	9/16/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Hymenoptera 4	Crabronidae			Species 10		none			1	9/22/2008	malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 5	Crabronidae	Bembix				Pinned	3	883	3	9/9/2007	UV Light
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 7	Crabronidae			Species 11		Pinned	2	420	2	7/5/2007	small black and darker yellow
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 12	Crabronidae			Species 12		Pinned		1546	2	5/14/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Hymenoptera 6	Crabronidae			Species 12		Pinned		1800	1	5/22/2007	Malaise

Chalcidoidea

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 7	Chalcidoidea			Species 1		Pinned	1	1261	1	9/14/2007	Malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera 1	Chalcidoidea			Species 1		none			1	5/6/2008	malaise

Chrysididae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 14	Chrysididae					Pinned	1	1372	1	9/18/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Hymenoptera 15	Chrysididae					none			1	7/9/2008	malaise

Cynipidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera5	Cynipidae			Species 1		pinned	1	2100	1	7/9/2008	uv
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 2	Cynipidae			Species 2		pinned		2189	1	9/20/2008	spot

Formicidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Control Riparian 5	Arthropoda	Insecta	Hymenoptera	Formicidae		Dorymyrmex	bicolor		Pinned		1669	2	5/20/2007	Spot
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Hymenoptera	Formicidae 2		Dorymyrmex	bicolor		ETOH		1675, 1832	5	5/17/2007	Spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera	Formicidae 2		Dorymyrmex	bicolor		ETOH		1673	2	5/15/2007	Spot
YEW	Restored Wetland 4	Arthropoda	Insecta	Hymenoptera	Formicidae 2		Dorymyrmex	bicolor		ETOH	1 pinned; 4	1836 pin; 316	4	7/4/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera	Formicidae 1		Formica	Species 2		Pinned		1661	4	5/17/2007	Spot
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera	Formicidae		Formica	Species 2		Pinned		1676	1	5/11/2007	Spot
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera 1	Formicidae		Formica	Species 2		none			1	9/24/2008	malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 1	Formicidae		Formica	Species 2		none			11	9/19/2008	malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera10	Formicidae		Formica	Species 2		none			11	7/7/2008	spot

YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Hymenoptera2	Formicidae		Formica	Species 2		none			1	7/14/2008	malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera1	Formicidae		Formica	Species 2		none			1	7/7/2008	malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera1	Formicidae		Formica	Species 2		none			11	7/7/2008	spot
YEW	Control Riparian 4	Arthropoda	Insecta	Hymenoptera	Formicidae		Formica	Species 2		pinned	1	1961	1	5/8/2008	spot
YEW	Restored Riparian Imm 1	Arthropoda	Arachnidae	Hymenoptera	Formicidae		Solenopsis	sp.		Pinned		1683	2	5/15/2007	
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera	Formicidae 7		Pogonomyrmex	californicus		pinned		1700	3	5/11/2007	Spot
YEW	Control Riparian 4	Arthropoda	Insecta	Hymenoptera	Formicidae 1		Pogomyrmex	californicus		Pinned		1670	3	5/20/2007	Spot
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 1	Formicidae 2		Pogomyrmex	californicus		ETOH	4	335	11	7/1/2007	
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera	Formicidae 2		Camponotus	species		pinned	1	2023	1		pit trap
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 2	Formicidae			Species 3		ETOH	2	348	2	7/1/2007	tiny red with black ab
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera4	Formicidae			Species 4		pinned		2043	1	7/8/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera	Formicidae 5			Species 5		Pinned		1674	1	5/20/2007	Spot
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Hymenoptera 1	Formicidae			Species 5		none			11	9/19/2008	malaise
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 1	Formicidae			Species 5		none			1	9/21/2008	malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Hymenoptera	Formicidae 1					ETOH	12	315	12	7/4/2007	
YEW	Restored Wetland 4	Arthropoda	Insecta	Hymenoptera	Formicidae 3					ETOH	4	317	4	7/4/2007	
YEW	Restored Wetland 4	Arthropoda	Insecta	Hymenoptera	Formicidae 4					ETOH	1	318	1	7/4/2007	
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Hymenoptera	Formicidae					ETOH	1	373	1	7/5/2007	
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera	Formicidae 1					ETOH	1	381	1	7/5/2007	
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera	Formicidae 2					ETOH	5	387	5	7/5/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera	Formicidae 3					ETOH	3	547	11	7/6/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera	Formicidae 4					ETOH	5	548	11	7/6/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera	Formicidae 5					ETOH	2	549	2	7/6/2007	
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera	Formicidae 1					ETOH	3	603	3	7/9/2007	
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera	Formicidae 2					ETOH	1	603	1	7/9/2007	
YEW	Control Riparian 5	Arthropoda	Insecta	Hymenoptera	Formicidae					ETOH	5	645	11	7/9/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera	Formicidae 1					ETOH	1	828	1	7/6/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera	Formicidae 2					ETOH	2	828	2	7/6/2007	
YEW	Control Wetland 2	Arthropoda	Insecta	Hymenoptera	Formicidae					ETOH	6	1158	6	9/15/2007	Spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera	Formicidae					ETOH	35	1167	35	9/13/2007	Malaise
YEW	Control Riparian 4	Arthropoda	Insecta	Hymenoptera	Formicidae					ETOH	2	1198	2	9/16/2007	Spot
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera	Formicidae 2					Pinned		1667	1	5/20/2007	Spot
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera	Formicidae 1					Pinned		1668	3	5/11/2007	Spot
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera	Formicidae 2					Pinned		1672	6	5/17/2007	Spot
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera	Formicidae 1					Pinned		1677	1	5/15/2007	Spot
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera	Formicidae 2					Pinned		1678	1	5/15/2007	Spot
YEW	Control Riparian 4	Arthropoda	Insecta	Hymenoptera	Formicidae 2					Pinned		1679	35	5/20/2007	Spot
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera	Formicidae 2					Pinned		1680	4	5/11/2007	Spot
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera	Formicidae 1					Pinned		1685	3	5/13/2007	Spot
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera	Formicidae 3					Pinned		1686	1	5/17/2007	Spot
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera	Formicidae 4					Pinned		1687	3	5/20/2007	Spot
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera	Formicidae							1688	4	5/17/2007	Spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera	Formicidae 1					Pinned		1690	6	5/15/2007	Spot
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Hymenoptera 1	Formicidae					none			11	9/21/2008	malaise
BWNWR	Reference Riparian 2	Arthropoda	Insecta	Hymenoptera 1	Formicidae					none			11	10/9/2008	malaise
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 1	Formicidae					Pinned	1	1835	1	7/1/2007	
YEW	Control Riparian 4	Arthropoda	Insecta	Hymenoptera	Formicidae 3					Pinned		1837	1	5/20/2007	Spot

YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Hymenoptera	Formicidae 1						ETOH		1671, 1831	3	5/17/2007	Spot
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Hymenoptera	Formicidae 1						Pinned		1682, 1829	6	5/15/2007	Spot
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera	Formicidae 3						Pinned		1684, 1830	2	5/15/2007	Spot
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera	Formicidae 6						pinned		1833, 1834	8	5/11/2007	Spot
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera	Formicidae						pinned	2	1390, 1391	11	5/5/2008	Malaise

Eulophidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Wetland 4	Arthropoda	Insecta	Hymenoptera	Eulophidae					Pinned	1	1180	1	9/14/2007	

Gasteruptionidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 7	Gasteruptionidae			Species 1		Pinned	1	814	1	7/6/2007	thread wasted
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera 4	Gasteruptionidae			Species 2		Pinned	1	833	1	7/6/2007	red thread-wasted
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera 3	Gasteruptionidae			Species 3		3 Pinned		1698	6	5/17/2007	Malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera 3	Gasteruptionidae			Species 3		3 Pinned		1695, 1694	6	5/17/2007	Malaise

Halictidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 2	Halictidae		Nomia	Species		Pinned		1413	1	5/12/2007	UV Light
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Hymenoptera 1	Halictidae		Nomia	Species		Pinned	1	441	1	7/6/2007	bee black and white stripes
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hymenoptera 1	Halictidae		Halict	Species		Pinned	1	1980	1	5/9/2008	Spot
YEW	Control Wetland 2	Arthropoda	Insecta	Hymenoptera 4	Halictidae		Halict	Species		pinned	1	1989	1	5/9/2008	malaise
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Hymenoptera	Halictidae		Halict	Species		pinned	1	1389	76	5/5/2008	spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Hymenoptera 1	Halictidae		Halict	Species		Pinned	2	624, 625	2	7/4/2007	
YEW	Restored Wetland 4	Arthropoda	Insecta	Hymenoptera 2	Halictidae		Agapostemon	Species		Pinned		1474	1	5/14/2007	Malaise
YEW	Control Riparian 4	Arthropoda	Insecta	Hymenoptera 3	Halictidae		Agapostemon	Species		none			1	9/23/2008	spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera	Halictidae		Dieuomia	Species		Pinned		1662	3	5/15/2007	Spot
YEW	Control Wetland 2	Arthropoda	Insecta	Hymenoptera 4	Halictidae		Casioglossum	tegrulariforme		Pinned		1776	1	5/22/2007	Malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 12	Halictidae		Lasioglossum	semibrunneum		Pinned		1569	2	5/14/2007	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 13	Halictidae		Lasioglossum	semibrunneum		Pinned	2	674- 675	4	7/1/2007	
YEW	Control Riparian 4	Arthropoda	Insecta	Hymenoptera 14	Halictidae		Lasioglossum	semibrunneum		Pinned	1	1199	1	9/16/2007	Spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 15	Halictidae		Lasioglossum	semibrunneum		Pinned	1	1168	1	9/13/2007	Malaise
YEW	Control Riparian 4	Arthropoda	Insecta	Hymenoptera 16	Halictidae		Lasioglossum	semibrunneum		none			6	5/8/2008	Malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 17	Halictidae		Lasioglossum	semibrunneum		Pinned	1	801	1	7/5/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 18	Halictidae		Lasioglossum	semibrunneum		Pinned	1	820	1	7/6/2007	yellow abd.
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Hymenoptera 19	Halictidae		Lasioglossum	semibrunneum		pinned	1 of 2	2106	1	7/7/2008	malaise
YEW	Control Riparian 4	Arthropoda	Insecta	Hymenoptera 20	Halictidae		Lasioglossum	semibrunneum		none			11	7/10/2008	malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 7	Halictidae		Halictus	ligatus		Pinned	2	421	2	7/5/2007	small black and darker yellow
YEW	Control Riparian 5	Arthropoda	Insecta	Hymenoptera 3	Halictidae			Species 2		Pinned	1	1311	1	9/16/2007	Malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 6	Halictidae			Species 3		Pinned		1527	1	5/14/2007	Malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera 6	Halictidae			Species 3		Pinned	1	838	1	7/6/2007	bee
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 3	Halictidae			Species 3		none			1	9/21/2008	spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 5	Halictidae			Species 3		none			11	9/23/2008	spot

YEW	Restored Wetland 4	Arthropoda	Insecta	Hymenoptera 1	Halitidae			Species 4		3 pinned		1812, 1813, 1797	8	5/14/2007	Spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Hymenoptera 4	Halitidae			Species 4		pinned	1	1985	1	5/7/2008	malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera	Halitidae			Species 4		none			1	7/11/2008	spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera	Halitidae			Species 4		Pinned		1584	3	5/15/2007	Spot
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 11	Halitidae			Species 4		none			1	7/7/2008	malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 5	Halitidae			Species 4		none			1	7/10/2008	malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Hymenoptera	Halitidae			Species 5		Pinned	1	435	1	7/4/2007	
YEW	Restored Wetland 4	Arthropoda	Insecta	Hymenoptera	Halitidae			Species 5		1		1777	2	5/14/2007	Spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 10	Halitidae			Species 6		Pinned	1	802	1	7/5/2007	
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera 3	Halitidae			Species 6		pinned	1 of 2	2093	1	7/7/2008	spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 3	Halitidae			Species 7		Pinned	1	1175	1	9/13/2007	Malaise
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera	Halitidae		Dieuomia	sp.		Pinned		1681	2	5/15/2007	Spot

Ichneumonidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 5	Ichneumonidae 10	Rhyssinae		Sp.1		Pinned		1666, 1572	1	5/11/2007	Malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 2	Ichneumonidae 11	Rhyssinae		Sp.1		Pinned	1	641	1	7/1/2007	
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 4	Ichneumonidae 12	Rhyssinae		Sp.2		Pinned		1699	1	5/11/2007	Malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 17	Ichneumonidae?			Species 1		Pinned	1	825	1	7/6/2007	black
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Hymenoptera 7	Ichneumonidae?			Species 1		none			1	7/7/2008	malaise
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 4	Ichneumonidae?			Species 1		Pinned		1538	1	5/15/2007	Malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 1	Ichneumonidae?			Species 2		Pinned		1705	1	5/11/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera	Ichneumonidae 1		Diplazon	Species 3		Pinned	1	299	1	6/30/2007	
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Hymenoptera 3	Ichneumonidae 2			Species 3		2 pinned; 3 in ETOH		1697	5	5/17/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Hymenoptera 2	Ichneumonidae 3		Hyposoter	Species 4		Pinned		1490	1	5/22/2007	Malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 3	Ichneumonidae 4		Hyposoter	Species 4		none			1	9/20/2008	uv
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 9	Ichneumonidae 5			Species 5		Pinned		1704	1	5/11/2007	UV Light
YEW	Control Wetland 2	Arthropoda	Insecta	Hymenoptera 3	Ichneumonidae 6		Diplazon	Species 6		1 Pinned		1550	2	5/22/2007	Malaise
YEW	Control Wetland 4	Arthropoda	Insecta	Hymenoptera 3	Ichneumonidae 6		Diplazon	Species 6		Pinned	1	1993	1	5/5-10/08	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 7	Ichneumonidae 7			Species 7		Pinned	1	521	1	6/29/2007	
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera 2	Ichneumonidae 8			Species 7		none			1	5/6/2008	malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera 3	Ichneumonidae 9			Species 8		Pinned	1	2012	1	5/5-10/08	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 10	Ichneumonidae?			Species 9		Pinned	1	819	1	7/6/2007	red/yellow abd
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera 3	Ichneumonidae 9			Species 10		Pinned	1	1284	1	9/13-20/09	
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 6	Ichneumonidae 10			Species 11		Pinned		1665	1	5/11/2007	Malaise

Megachilidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 3	Megachilidae	Megachilinae		Species 1		Pinned	1	505	1	6/29/2007	
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 4	Megachilidae	Megachilinae		Species 1		none			1	7/10/2008	malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Hymenoptera 1	Megachilidae	Megachilinae		Species 1		Pinned	1	765	1	7/9/2007	
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 4	Megachilidae	Megachilinae		Species 2		Pinned		1412	1	5/15/2007	Malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 5	Megachilidae		Megachile	Species 3		Pinned	1	418	1	7/5/2007	

Mutillidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 1	Mutillidae		Dasymutilla	Species 1		Pinned	1	861	1	9/10/2007	Spot
BWNWR	Reference Riparian 4	Arthropoda	Insecta	Hymenoptera 1	Mutillidae		Dasymutilla	Species 1		pinned		2228	1	10/9/2008	spot
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera	Mutillidae		Dasymutilla	Species 2		Pinned	1	659	1	7/1/2007	
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 1	Mutillidae			Species 1		Pinned	2	587- 588	11	7/3/2007	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 1	Mutillidae			Species 1		Pinned	1	1080	1	9/15/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 1	Mutillidae			Species 1		none			1	7/8/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 4	Mutillidae			Species 1		Pinned		1768	1	5/13/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 2	Mutillidae			Species 1		Pinned	3	589- 591	11	7/3/2007	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 3	Mutillidae			Species 1		Pinned	1	908	6	9/9/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 1	Mutillidae			Species 1		Pinned	2	222- 223	4	6/28/2007	yellow and red abdomen
YEW	Control Wetland 3	Arthropoda	Insecta	Hymenoptera 1	Mutillidae			Species 1		Pinned	3	268- 270	11	7/3/2007	red wasp
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 2	Mutillidae			Species 1		Pinned	1	224	1	6/28/2007	red
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 4	Mutillidae			Species 1		Pinned	1	226	1	6/28/2007	wide red
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 1	Mutillidae			Species 1		none			29	5/5/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 5	Mutillidae			Species 1		Pinned	1	601	1	7/3/2007	reddish body
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 6	Mutillidae			Species 1		Pinned	1	1209	4	9/13/2007	UV Light
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 1	Mutillidae			Species 1		Pinned	1	1128	2	9/13/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 1	Mutillidae			Species 1		Pinned	6	121, 124	35	6/29/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 7	Mutillidae			Species 1		none			11	7/8/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 2	Mutillidae			Species 1		none			11	7/8/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 3	Mutillidae			Species 1		none			11	7/8/2008	uv
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 3	Mutillidae			Species 1		none			3	5/6/2008	UV
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 3	Mutillidae			Species 1		none			7	5/7/2008	uv
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 6	Mutillidae			Species 1		1 Pinned		1771	7	5/12/2007	UV Light
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 2	Mutillidae			Species 1		none			1	7/10/2008	uv
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 2	Mutillidae			Species 1		none			1	7/17/2008	malaise
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 4	Mutillidae			Species 1		none			11	7/9/2008	uv
YEW	Control Wetland 3	Arthropoda	Insecta	Hymenoptera 5	Mutillidae			Species 1		none			1	7/9/2008	uv
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 2	Mutillidae			Species 1		none			11	7/8/2008	uv
YEW	Restored Wetland 2	Arthropoda	Insecta	Hymenoptera 4	Mutillidae			Species 1		none			1	7/11/2008	malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 2	Mutillidae			Species 1		none			11	7/17/2008	uv
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 2	Mutillidae			Species 1		Pinned		1785, 1780, 1772	3	5/13/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 2	Mutillidae			Species 1		Pinned		1774	11	5/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 2	Mutillidae			Species 1		Pinned	1	1221	7	9/14/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 1	Mutillidae			Species 1		None			4	9/17/2007	UV light #2- do not use in analysis
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 2	Mutillidae			Species 1		Pinned	1	1749	1	5/13-18/07	
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 3	Mutillidae			Species 1		Pinned	1	597	1	&/4-12/07	
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 2	Mutillidae			Species 2		Pinned		1778, 1791	2	5/12/2007	UV light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 4	Mutillidae			Species 2		none			5	5/7/2008	uv
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 7	Mutillidae			Species 2		1 Pinned		1783	7	5/12/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 8	Mutillidae			Species 2		Pinned	1	1769	1	5/11/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 5	Mutillidae			Species 3		2 pinned		1701, 1703	7	5/12/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 2	Mutillidae			Species 3		none			2	5/6/2008	UV
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 6	Mutillidae			Species 3		Pinned	2	235	11	6/28/2007	

YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 7	Mutillidae			Species 3		Pinned	1	158	1	7/4-12/07	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 3	Mutillidae			Species 4		Pinned	1	225	1	6/28/2007	blackish
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 5	Mutillidae			Species 4		Pinned	1	979	1	9/12/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 1	Mutillidae			Species 4		Pinned	4	119, 120, 122, 123	35	6/29/2007	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 3	Mutillidae			Species 4		Pinned		1781	1	5/13/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 6	Mutillidae			Species 4		Pinned	1	987	1	9/12/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 4	Mutillidae			Species 4		Pinned	2	691	11	7/1/2007	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 5	Mutillidae			Species 6		Pinned	1	699	1	7/1/2007	small yellow
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 7	Mutillidae			Species 6		Pinned	1	1210	5	9/13/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 1	Mutillidae			Species 6		Pinned	1	1153	6	9/14/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 2	Mutillidae			Species 6		none			23	5/7/2008	uv
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 2	Mutillidae			Species 7		Pinned	2	185	2	6/28/2007	solid red ab
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 2	Mutillidae			Species 7		Pinned		1780	3	5/13/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 2	Mutillidae			Species 7		Pinned	1	1088	2	9/15/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 4	Mutillidae			Species 7		none			4	5/6/2008	UV
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 2	Mutillidae			Species 7		pinned	1	1788	1	7/13-20/07	
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 2	Mutillidae			Species 7		Pinned	1	1129	1	9/13/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 3	Mutillidae			Species 8		Pinned	1	660	1	7/1/2007	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 1	Mutillidae			Species 8		Pinned		1707, 1708	2	5/13/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 1	Mutillidae			Species 8		pinned	1	181	1	7/4-12/07	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 8	Mutillidae			Species 9		pinned		1806	1	5/13/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Hymenoptera 1	Mutillidae			Species 9		Pinned		1709, 1779	2	5/14/2007	UV Light
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 2	Mutillidae			Species 9		Pinned	1	156	1	6/29/2007	brown with red legs
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera1	Mutillidae			Species 9		none			35	7/17/2008	uv
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera3	Mutillidae			Species 9		none			11	7/10/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera6	Mutillidae			Species 9		none			11	7/8/2008	uv
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera1	Mutillidae			Species 9		none			11	7/8/2008	uv
YEW	Control Wetland 3	Arthropoda	Insecta	Hymenoptera4	Mutillidae			Species 9		none			11	7/9/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera3	Mutillidae			Species 9		none			11	7/9/2008	uv
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera2	Mutillidae			Species 9		none			11	7/10/2008	uv
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 1	Mutillidae			Species 9		Pinned	3	181- 183	3	6/28/2007	red and black striped abdomen
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 2	Mutillidae			Species 9		Pinned	2	184	2	6/28/2007	solid red ab
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 4	Mutillidae			Species 9		Pinned		1702	11	5/14/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 6	Mutillidae			Species 9		Pinned	2	236	11	6/28/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 5	Mutillidae			Species 9		Pinned	1	227	1	6/28/2007	black and yellow abdomen red legs

Mutillidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total	Date Collected	Method of Collection
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 8	Mutillidae			Species 2		1 Pinned		1787	5	5/12/2007	UV Light
BWNWR	Reference Riparian 4	Arthropoda	Insecta	Hymenoptera 2	Mutillidae			Species 2		none			11	10/9/2008	uv
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 4	Mutillidae			Species 2		none			1	9/21/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 4	Mutillidae			Species 2		none			11	9/19/2008	uv
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 2	Mutillidae			Species 2		none			1	9/23/2008	malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 1	Mutillidae			Species 2		Pinned	1	155	1	6/29/2007	Reddish

YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 1	Mutillidae			Species 2		none	1	1981	1	5/9/2008	spot
YEW	Control Riparian 4	Arthropoda	Insecta	Hymenoptera 4	Mutillidae			Species 5		Pinned	1	478	1	7/9/2007	

Myrmosidae

Site	Location	Phylum	Class	Order	Family			Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Control Riparian 5	Arthropoda	Insecta	Hymenoptera	Myrmosidae				Species 1		Pinned		1511	1	5/14/2007	Malaise

Nomidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Hymenoptera5	Nomidae			Species 2		pinned	2 of 2	2111	1	7/7/2008	malaise

Pompilidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera	Pompilidae		Pepsis	sp.		pinned	2	1097	2	09/13-18/07	
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Hymenoptera 2	Pompilidae		Eragetes	sp.		Pinned		1696	1	5/10/2007	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 2	Pompilidae		Eragetes	sp.		Pinned	1	445	1	7/1/2007	blue wasp
YEW	Control Wetland 2	Arthropoda	Insecta	Hymenoptera 1	Pompilidae		Ceropales	sp. 1		Pinned	1	1091	1	9/15/2007	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Hymenoptera3			Ceropales	sp. 1		pinned	1of 2	2107	11	7/9/2008	malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 7	Pompilidae		Ceropales	sp. 1		Pinned	1	1354	1	9/18/2007	Spot
YEW	Control Wetland 2	Arthropoda	Insecta	Hymenoptera 5	Pompilidae		Ceropales	sp. 1		none			1	9/22/2008	malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Hymenoptera3	Pompilidae		Ceropales	sp. 2		pinned	2 of 2	2108	11	7/9/2008	malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 2	Pompilidae			Species 1		Pinned		1691	1	5/11/2007	Malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Hymenoptera5	Pompilidae			Species 1		none			1	7/11/2008	malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 11	Pompilidae		Anoplius	sp. 1		Pinned	1	1368	1	9/18/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera 1	Pompilidae		Anoplius	sp. 1		Pinned	1	1282	1	9/18/2007	Spot
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Hymenoptera 3	Pompilidae		Anoplius	sp. 1		Pinned	1	1762	1	5/15/2008	Malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 6	Pompilidae			Species 2		Pinned	1	546	1	7/1/2007	black curled antenna
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 8	Pompilidae			Species 4		Pinned	2	671- 672	3	7/1/2007	black short abdomen
BWNWR	Reference Riparian 2	Arthropoda	Insecta	Hymenoptera 3	Pompilidae			Species 4		none			1	10/9/2008	malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 5	Pompilidae			Species 5		Pinned	1	542	1	7/1/2007	black iridescent
YEW	Restored Wetland 2	Arthropoda	Insecta	Hymenoptera1	Pompilidae			Species 5		none			1	7/11/2008	spot

Scoliidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 7	Scoliidae		Campsomeris	tolteca		Pinned	1	1111	1	9/13/2007	Spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 4	Scoliidae		Campsomeris	tolteca		Pinned	1	395	1	7/4/2007	

Sphecidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 2	Sphecidae		Chalybion	californicum		Pinned	2	412- 413	2	7/5/2007	iridescent
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 10	Sphecidae		Chalybion	californicum		Pinned		1804	1	5/14/2007	Spot
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 10	Sphecidae			Species 1		Pinned	1	842	1	7/9/2007	

YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Hymenoptera1	Sphecidae			Species 1		none			1	7/7/2008	malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera2	Sphecidae			Species 1		None			5	9/13/2007	UV Light
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Hymenoptera	Sphecidae			Species 1		Pinned		1815	1	5/15/2007	Spot
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 3	Sphecidae			Species 1		pinned	1	2000	1	5/14/2008	spot
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 5	Sphecidae			Species 1		Pinned		1816	1	5/20/2007	Spot
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera	Sphecidae			Species 1		Pinned		1706	1	5/20/2007	Spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 5	Sphecidae			Species 1		Pinned	2	396, 397	2	7/4/2007	
YEW	Control Wetland 4	Arthropoda	Insecta	Hymenoptera 2	Sphecidae			Species 2		Pinned	1	483	2	7/10/2007	red abdomen with black tip
YEW	Control Wetland 3	Arthropoda	Insecta	Hymenoptera2	Sphecidae			Species 2		none			1	7/9/2008	spot
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 1	Sphecidae			Species 2			2	1803, 1810	3	5/11/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 12	Sphecidae			Species 3		Pinned	1	821	1	7/6/2007	red abdomen with black tip
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Hymenoptera 3	Sphecidae			Species 2		Pinned		1819, 1818	2	5/10/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Hymenoptera 1	Sphecidae			Species 2		Pinned		1814	1	5/10/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Hymenoptera 1	Sphecidae			Species 2		Pinned	1	1755	6	5/15/2008	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Hymenoptera 2	Sphecidae			Species 2		none		0	1	5/15/2008	Malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Hymenoptera 4	Sphecidae			Species 2		Pinned	1	717	1	7/2/2007	red abdomen with black tip
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Hymenoptera5	Sphecidae			Species 2		none			1	7/18/2008	malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 9	Sphecidae			Species 2		Pinned	1	682	1	7/1/2007	red abdomen with black tip
BWNWR	Reference Riparian 6	Arthropoda	Insecta	Hymenoptera 1	Sphecidae			Species 2		none			1	10/9/2008	spot
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Hymenoptera 2	Sphecidae		Sceliphron	sp.		Pinned	1	1757	1	5/15/2008	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Hymenoptera2	Sphecidae		Sceliphron	sp.		none			1	7/18/2008	malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Hymenoptera3	Sphecidae		Sceliphron	sp.		none			1	7/18/2008	malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Hymenoptera 1	Sphecidae		Sceliphron	sp.		none		0	1	5/15/2008	Malaise
YEW	Control Riparian 4	Arthropoda	Insecta	Hymenoptera 2	Sphecidae		Sceliphron	sp.		Pinned	1	667	1	7/9/2007	wasp
YEW	Control Wetland 2	Arthropoda	Insecta	Hymenoptera 2	Sphecidae		Sceliphron	sp.		pinned	1	1987	1	5/9/2008	malaise
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 9	Sphecidae		Sceliphron	sp.		Pinned	1	841	1	7/9/2007	large black ab
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Hymenoptera 3	Sphecidae		Sceliphron	sp.		Pinned	1	712	1	7/2/2007	large wasp
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 2	Sphecidae		Sphex	sp. 1		Pinned	1	870	1	9/10/2007	Spot
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 1	Sphecidae		Sphex	sp. 1		Pinned	1	878	1	9/10/2007	Spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 7	Sphecidae		Sphex	sp. 2		pinned	1 of 2	2197	1	9/23/2008	spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 7	Sphecidae		Sphex	sp. 2		pinned	2 of 2	2198	1	9/23/2008	spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera	Sphecidae		Peolalonia	sp.		pinned	1	2036	1		pit trap
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 6	Sphecidae			Species 2		Pinned	1	520	11	6/29/2007	
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Hymenoptera10	Sphecidae			Species 2		none			11	7/7/2008	malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Hymenoptera4	Sphecidae			Species 2		none			1	7/9/2008	malaise
BWNWR	Reference Riparian 2	Arthropoda	Insecta	Hymenoptera 2	Sphecidae			Species 2		none			1	10/9/2008	malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera	Sphecidae			Species 2		Pinned	1	1082	1	9/15/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera	Sphecidae			Species 3		Pinned	2	1081, 1083	5	9/15/2007	UV Light

Tenthredinidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Hymenoptera8	Tenthredinidae			Species 1		pinned	1	2112	1	7/7/2008	malaise

Tiphiidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
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YEW	Restored Wetland 4	Arthropoda	Insecta	Hymenoptera 3	Tiphiidae			Species 1		Pinned	3	1179-1181	3	9/14/2007	Malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Hymenoptera3	Tiphiidae			Species 1		none			1	7/7/2008	malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 2	Tiphiidae			Species 1		Pinned		1693	1	5/15/2007	Spot
YEW	Restored Wetland 4	Arthropoda	Insecta	Hymenoptera3	Tiphiidae			Species 1		none			1	7/14/2008	spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hymenoptera 5	Tiphiidae			Species 1		Pinned	1	1376	1	9/18/2007	Malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 3	Tiphiidae			Species 1		Pinned	1	1324	1	9/17/2007	Malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 8	Tiphiidae			Species 1		Pinned	2	816- 817	2	7/6/2007	
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 4	Tiphiidae			Species 1		Pinned	2	416- 417	2	7/5/2007	small black and bright yellow
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 2	Tiphiidae			Species 1		none			1	9/19/2008	malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Hymenoptera 2	Tiphiidae			Species 1		none			1	9/19/2008	malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera 2	Tiphiidae			Species 1		none			1	9/19/2008	malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Hymenoptera 1	Tiphiidae			Species 1		none			1	9/22/2008	malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Hymenoptera1	Tiphiidae			Species 1		none			1	7/14/2008	malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Hymenoptera 1	Tiphiidae	Tiphinae		Species 1		Pinned	1	954	1	9/14/2007	Spot
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 7	Tiphiidae	Tiphinae		Species 2		Pinned	1	916	2	9/10/2007	Malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera9	Tiphiidae	Tiphinae		Species 2		none			1	7/10/2008	malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Hymenoptera 1	Tiphiidae	Tiphinae		Species 2		none			1	5/7/2008	malaise
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 9	Tiphiidae	Tiphinae		Species 2		Pinned	1	1113	1	9/13/2007	Spot
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera 5	Tiphiidae	Tiphinae		Species 3		Pinned	1	837	1	7/6/2007	pointed ab
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera 1	Tiphiidae	Tiphinae		Species 3		none			11	9/19/2008	malaise
YEW	Control Riparian 5	Spot Collection: None	Insecta	Hymenoptera 1	Tiphiidae	Tiphinae		Species 3		none			1	9/21/2008	malaise
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 2	Tiphiidae	Tiphinae		Species 3		none				9/22/2008	uv
YEW	Control Riparian 4	Arthropoda	Insecta	Hymenoptera 2	Tiphiidae	Tiphinae		Species 3		none			1	9/23/2008	malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 3	Tiphiidae	Tiphinae		Species 3		none			1	9/23/2008	malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Hymenoptera 4	Tiphiidae	Tiphinae		Species 3		none			1	9/20/2008	malaise
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 5	Tiphiidae	Tiphinae		Species 3		none			1	9/21/2008	uv
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera 3	Tiphiidae	Tiphinae		Species 3		none			11	9/24/2008	malaise
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 8	Tiphiidae	Tiphinae		Species 3		Pinned	1	830	1	7/9/2007	
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera7	Tiphiidae	Tiphinae		Species 3		none			1	7/10/2008	malaise
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 3	Tiphiidae	Brachycistidinae		Species 1		Pinned		1786, 1784	11	5/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 1	Tiphiidae	Brachycistidinae		Species 1		none			11	9/22/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 3	Tiphiidae	Brachycistidinae		Species 1		Pinned	1	1222	19	9/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 3	Tiphiidae	Brachycistidinae		Species 1		Pinned	1	592	1	7/3/2007	

Vespidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Hymenoptera 1	Vespidae		Polistes	aurifer		Pinned		1664	1	5/10/2007	Malaise
YEW	Control Riparian 4	Arthropoda	Insecta	Hymenoptera 3	Vespidae		Polistes	aurifer		Pinned	1	1200	1	9/16/2007	Spot
YEW	Control Wetland 4	Arthropoda	Insecta	Hymenoptera 1	Vespidae		Polistes	aurifer		Pinned	1	1116	1	9/15/2007	Spot
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Hymenoptera 1	Vespidae		Polistes	aurifer		Pinned	2	1019	2	9/11/2007	Malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera 2	Vespidae		Polistes	aurifer		Pinned	1	763	1	7/6/2007	
YEW	Control Riparian 4	Arthropoda	Insecta	Hymenoptera 1	Vespidae		Polistes	aurifer		Pinned	1	666	1	7/9/2007	yellow jacket
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera1	Vespidae		Polistes	aurifer		none			1	7/10/2008	spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera11	Vespidae		Polistes	aurifer		none			1	7/10/2008	malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Hymenoptera 2	Vespidae		Polistes	aurifer		Pinned	2	627	2	7/4/2007	

YEW	Adjacent Ag 2	Arthropoda	Insecta	Hymenoptera 1	Vespidae		Polistes	aurifer		Pinned	2	425- 426	2	6/30/2007	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Hymenoptera1	Vespidae		Polistes	aurifer		none			11	7/18/2008	malaise
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Hymenoptera2	Vespidae		Polistes	aurifer		none			1	7/18/2008	malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Hymenoptera 1	Vespidae		Polistes	aurifer		none			1	10/8/2008	spot
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Hymenoptera 1	Vespidae		Polistes	aurifer		none			1	10/8/2008	malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 1	Vespidae		Polistes	aurifer		Pinned	3	409- 411	3	7/5/2007	
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Hymenoptera 2	Vespidae		Polistes	apachus		Pinned	2	710- 711	2	7/2/2007	yellow jacket
YEW	Control Riparian 4	Arthropoda	Insecta	Hymenoptera	Vespidae		Polistes	apachus		none			1	7/10/2008	Spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Hymenoptera3	Vespidae		Polistes	apachus		none			1	7/18/2008	spot
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Hymenoptera5	Vespidae		Polistes	apachus		none			1	7/18/2008	spot
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 2	Vespidae		Polistes	apachus		Pinned		1663	1	5/11/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Hymenoptera 1	Vespidae		Polistes	apachus		Pinned	2	1018	2	9/11/2007	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Hymenoptera 1	Vespidae		Polistes	apachus		Pinned	2	935 & 936	2	9/11/2007	Spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Hymenoptera 2	Vespidae		Polistes	apachus		Pinned	2	628	2	7/4/2007	
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Hymenoptera 1	Vespidae		Polistes	apachus		Pinned	1	408	1	7/2/2007	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 10	Vespidae		Polistes	apachus		Pinned	1	607	1	6/30/2007	
YEW	Control Riparian 5	Arthropoda	Insecta	Hymenoptera 3	Vespidae	Eumeninae	Ancistrocerus	sp. 1		Pinned	1	468	1	7/9/2007	black with thin yellow stripes
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Hymenoptera9	Vespidae	Eumeninae	Ancistrocerus	sp. 1		none			1	7/7/2008	malaise
YEW	Control Wetland 4	Arthropoda	Insecta	Hymenoptera10	Vespidae	Eumeninae	Parancistrocerus	sp. 1		Pinned	1	2105	1	07/18-16/2008	
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Hymenoptera 7	Vespidae	Eumeninae	Parancistrocerus	sp. 2		Pinned	1	1764	1	5/15/2008	Malaise
YEW	Control Wetland 4	Arthropoda	Insecta	Hymenoptera 1	Vespidae	Eumeninae		Species 1		Pinned	1	482	1	7/10/2007	
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera6	Vespidae	Eumeninae		Species 2		pinned	1	2081	1	7/10/2008	malaise
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Hymenoptera6	Vespidae	Eumeninae		Species 2		pinned	1	2073	1	7/7-16/08	
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera1	Vespidae	Eumeninae		Species 2		none			1	7/11/2008	malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 3	Vespidae			Species 1		Pinned	1	447	3	7/1/2007	wasp yellow and black
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 5	Vespidae			Species 2		Pinned	1	1239	1	9/14/2007	Spot
BWNWR	Reference Riparian 6	Arthropoda	Insecta	Hymenoptera 1	Vespidae			Species 3		pinned	1	2162	1	10/9/2008	malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 11	Vespidae			Species 4		Pinned		1565	1	5/11/2007	Malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Hymenoptera4	Vespidae			Species 4		none			1	7/7/2008	malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera5	Vespidae			Species 4		Pinned	1	931	1	9/10/2007	Malaise
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera	Vespidae			Species 5		Pinned		1487	1	5/15/2007	Malaise
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 4	Vespidae			Species 6		Pinned	1	434	1	7/5/2007	
YEW	Control Wetland 2	Arthropoda	Insecta	Hymenoptera 3	Vespidae			Species 6		pinned	1	1988	1	5/9/2008	malaise
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 8	Vespidae			Species 6		Pinned	1	1112	1	9/13/2007	Spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Hymenoptera 1	Vespidae			Species 6		Pinned	2	708- 709	2	7/2/2007	bee like
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Hymenoptera4	Vespidae			Species 6		none			1	7/18/2008	malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera5	Vespidae			Species 6		none			1	7/17/2008	malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Hymenopter2	Vespidae			Species 6		none			1	7/18/2008	spot
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Hymenoptera2	Vespidae			Species 6		none			11	7/18/2008	malaise

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 2						Pinned	1	152	11	6/29/2007	yellow small wasp
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera 2						Pinned	1	215	1	6/30/2007	small wasp
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera 3						Pinned	1	835	3	7/6/2007	
YEW	Control Wetland 3	Arthropoda	Insecta	Hymenoptera 3						ETOH	11	289	11	7/3/2007	small red wasp

YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera4						none			1	7/10/2008	uv
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 1						ETOH	3	330	11	7/1/2007	
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 5						Pinned	1	363	1	7/1/2007	
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 6						Pinned	1	365	1	7/1/2007	bluish green stripes
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Diptera7						none			1	7/7/2008	malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera 4						ETOH	abundant	402	76	6/30/2007	
YEW	Restored Wetland 2	Arthropoda	Insecta	Hymenoptera 3						Pinned	1	462	4	7/4/2007	black wasp
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 5						Pinned	2	518- 519	4	6/29/2007	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 10						Pinned	1	607	1	6/30/2007	
YEW	Control Riparian 4	Arthropoda	Insecta	Hymenoptera 3						Pinned	1	669	1	7/9/2007	red small
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera 7						Pinned	1	670	7	7/1/2007	small black ab
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Hymenoptera 2						Pinned	1	795	2	7/5/2007	
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 7						Pinned	1	829	1	7/9/2007	
YEW	Control Wetland 3	Arthropoda	Insecta	Hymenoptera 5						Pinned	1	857	1	7/10/2007	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 1						ETOH	1	863	3	9/10/2007	Spot
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 8						Pinned	1	917	1	9/10/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera 1						ETOH			1	5/13/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera 2						ETOH			1	5/13/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera 3						ETOH			1	5/13/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera 4						ETOH			1	5/13/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera 5						ETOH			1	5/13/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Hymenoptera 2						Pinned	1	1026	5	9/11/2007	Malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Hymenoptera 3						None			1	9/17/2007	Malaise
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Hymenoptera 2						Pinned	2	1048-1049	11	9/13/2007	Malaise
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Hymenoptera						Pinned	1	1132	1	9/13/2007	Malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymneoptera 5						Pinned	1	1150	31	9/10/2007	Malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 4						none			1	9/23/2008	malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 2						Pinned	1	1173	2	9/13/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 9						None			2	9/18/2007	Malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 8						Pinned	1	1211	3	9/13/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 14						ETOH	1	1218	1	9/13/2007	UV Light
YEW	Control Wetland 4	Arthropoda	Insecta	Hymenoptera 2						Pinned	1	1258	1	9/15/2007	Malaise
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 7						ETOH	9	1259	9	9/16/2007	Spot
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera 8						ETOH	6	1260	6	9/16/2007	Spot
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenopterta 1						ETOH	5	1275	5	9/17/2007	Spot
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenopterta 2						ETOH	5	1276	5	9/17/2007	Spot
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera 4						Pinned	1	1286	1	9/17/2007	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Hymenoptera 3						Pinned	1	1314	1	9/16/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera3						none			11	7/8/2008	malaise
YEW	Control Riparian 4	Arthropoda	Insecta	Hymenoptera 4						Pinned	1	1317	1	9/16/2007	Malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 5						ETOH	3	1327	3	9/17/2007	Malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Hymenoptera 4						pinned		1485	1	5/17/2007	Spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Hymenoptera 8						Pinned		1486, 1548	2	5/14/2007	Malaise
YEW	Control Riparian 5	Arthropoda	Insecta	Hymenoptera 1						Pinned		1524	2	5/14/2007	Malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera6						none			1	7/17/2008	malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Hymenoptera 7						pinned		1794	1	5/13/2007	UV Light
YEW	Control Riparian 5	Arthropoda	Insecta	Hymenoptera 2						Pinned		1801	1	5/14/2007	Malaise

BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Hymenoptera 2	Ichneuemonidae?						Pinned		1802	1	5/11/2007	
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera 3							Pinned		1807	1	5/15/2007	Spot
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Hymenoptera 3							1 Pinned		1809	2	5/11/2007	Malaise
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Hymenoptera 6							Pinned		1813	1	5/10/2007	Spot
YEW	Control Wetland 4	Arthropoda	Insecta	Hymenoptera4							pinned	1	2015	1	7/9/2008	malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Hymenoptera1							pinned	1	2057	1	7/9/2008	spot
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera2							pinned	1	2079	1	7/7/2008	malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Hymenoptera7							pinned	1	2082	1	7/10/2008	malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Hymenoptera6							none			1	7/9/2008	malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Hymenoptera6							none			1	7/7/2008	malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera4							pinned	1	2091	1	7/8/2008	malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Hymenoptera12							none			1	7/7/2008	spot
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera1							none			1	7/17/2008	malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Hymenoptera5							pinned	1	2092	1	7/8/2008	malaise
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Hymenoptera3							none			1	7/17/2008	malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Hymenoptera3							pinned	2 of 2	2094	1	7/7/2008	spot
YEW	Control Wetland 2	Arthropoda	Insecta	Hymenoptera5							pinned		2109	1	7/9/2008	malaise
YEW	Control Riparian 2	Arthropoda	Insecta	Hymenoptera6							none			1	7/10/2008	malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Hymenoptera 3							pinned		2182	1	9/20/2008	malaise
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Diptera 4							none			11	9/21/2008	malaise
YEW	Control Riparian 2	Arthropoda	Insecta	Diptera 4							none			11	9/22/2008	uv
YEW	Adjacent Ag 2	Arthropoda	Insecta	Diptera 5							none			11	9/24/2008	malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Diptera 5							none			11	9/19/2008	malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Hymenoptera 3							none			21	5/9/2008	Malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Hymenoptera3							none			1	7/18/2008	malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Hymenoptera2							none			1	7/14/2008	spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Hymenoptera2							none			1	7/11/2008	spot

Isoptera

Kalotermitidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Control Riparian 2	Arthropoda	Insecta	Isoptera	Kalotermitidae					Pinned	3	596- 598	11	7/3/2007	
YEW	Adjacent Ag 2	Arthropoda	Insecta	Isoptera	Kalotermitidae					none			35	9/24/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Isoptera	Kalotermitidae					none			1	9/19/2008	uv
YEW	Restored Wetland 1	Arthropoda	Insecta	Isoptera	Kalotermitidae					none			11	7/10/2008	uv
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Isoptera	Kalotermitidae					none			11	7/10/2008	uv
YEW	Control Wetland 3	Arthropoda	Insecta	Isoptera	Kalotermitidae					none			35	7/9/2008	uv
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Isoptera	Kalotermitidae					none			1	7/17/2008	uv
YEW	Adjacent Ag 1	Arthropoda	Insecta	Isoptera	Kalotermitidae					none			11	7/8/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Isoptera	Kalotermitidae					none			76	7/9/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Isoptera	Kalotermitidae					none			11	7/8/2008	uv
YEW	Control Wetland 3	Arthropoda	Insecta	Isoptera	Kalotermitidae					Pinned and ETOH	1 and 2	274 and 277	11	7/3/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Isoptera	Kalotermitidae					Pinned	1	1217	1	9/13/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Isoptera	Kalotermitidae					Pinned	1	985	1	9/12/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Isoptera	Kalotermitidae					Pinned	1	1152	13	9/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Isoptera	Kalotermitidae					ETOH	10	1227	10	9/14/2007	UV Light

YEW	Control Wetland 3	Arthropoda	Insecta	Isoptera	Kalotermitidae					None			9	9/14/2007	UV Light
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Lepidoptera

Acrolophidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Lepidoptera	Acrolophidae		Acrolophus	variabilis		Pinned	2	364 & 369	6	7/1/2007	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 6	Acrolophidae		Acrolophus	variabilis		none			1	5/7/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 2	Acrolophidae		Acrolophus	variabilis		pinned	1	1982	7	5/5/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 9	Acrolophidae		Acrolophus	variabilis		Pinned	1	1231	2	9/14/2007	UV Light

Danaidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 9	Danaidae		Dannus	gilippus	strigosus	Pinned	1	1411	1	7/1/2007	
BWNWR	Reference Riparian 4	Arthropoda	Insecta	Lepidoptera 2	Danaidae		Dannus	gilippus	strigosus	none			1	10/9/2008	spot
BWNWR	Reference Riparian 6	Arthropoda	Insecta	Lepidoptera 1	Danaidae					pinned	1	2217	1	10/9/2008	spot
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Lepidoptera 2	Danaidae					pinned		2216	1	9/19/2008	spot

Cossidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 2	Cossidae		Prionoxystus	robiniae		Pinned	1	1883	1	5/7/2008	uv
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 1	Cossidae		Prionoxystus	robiniae		Pinned		1449	1	5/13/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 2	Cossidae		Prionoxystus	robiniae		Pinned		1437, 1448	2	5/12/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 1	Cossidae		Prionoxystus	robiniae		4 pinned		1439-1442	10	5/11/2007	UV Light

Gelechiidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Lepidoptera 4	Gelechiidae		Chionodes	Species		Pinned	1	946	3	9/11/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 11	Gelechiidae		Chionodes	Species		none			11	9/19/2008	uv
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 5	Gelechiidae		Chionodes	Species		none			1	9/22/2008	uv
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 5	Gelechiidae		Chionodes	fructuaria		pinned	1	1952	1	5/5/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 9	Gelechiidae		Faculta	inaequalis		pinned	1	1959	2	5/7/2008	uv
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 6	Gelechiidae		Faculta	inaequalis		none			11	9/21/2008	uv
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 9	Gelechiidae		Faculta	inaequalis		Pinned	2	1297, 1298	35	9/9/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 9	Gelechiidae		Faculta	inaequalis		none			11	9/19/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 14	Gelechiidae		Faculta	inaequalis		Pinned	1	1236	1	9/14/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 6	Gelechiidae		Faculta	inaequalis		none			1	9/22/2008	uv

Geometridae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 4	Geometridae		Digrammia	colorata		Pinned		1432	6	5/12/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 6	Geometridae		Digrammia	colorata		none			4	5/5/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 9	Geometridae		Digrammia	colorata		Pinned		1458, 1459	11	5/14/2007	UV Light
YEW	Adjacent Ag 2	Arthropoda	Insecta	Lepidoptera 2	Geometridae		Digrammia	colorata		none			11	9/24/2008	uv

YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera 3	Geometridae		Digrammia	colorata		none			1	9/20/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 3	Geometridae		Digrammia	colorata		none			11	9/22/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 4	Geometridae		Digrammia	colorata		none			11	9/19/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 3	Geometridae		Digrammia	colorata		Pinned		1459	11	5/14/2007	UV Light
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera 7	Geometridae		Digrammia	colorata		none			5	5/7/2008	uv
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 4	Geometridae		Digrammia	irrorata		Pinned		1433	6	5/12/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 11	Geometridae		Digrammia	irrorata		Pinned	1	1299	13	9/9/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 5	Geometridae		Digrammia	irrorata		None			3	9/17/2007	UV light #2- do not use in analysis
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 7	Geometridae		Digrammia	irrorata		none			9	5/5/2008	uv
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera 1	Geometridae		Digrammia	puertata		Pinned		1436	1	5/12/2007	UV light
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Lepidoptera 4	Geometridae		Digrammia	puertata		none			1	10/8/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 1	Geometridae		Digrammia	puertata		none			1	5/6/2008	malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 18	Geometridae		Digrammia	puertata		Pinned	1	1070	13	9/13/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 3	Geometridae		Digrammia	puertata		Pinned	1	280	5	7/3/2007	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 1	Geometridae		Digrammia	puertata		none			11	9/21/2008	uv
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera 2	Geometridae		Digrammia	puertata		none			1	9/20/2008	uv
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 2	Geometridae		Digrammia	puertata		none			1	9/22/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 3	Geometridae		Digrammia	puertata		none			11	9/19/2008	uv
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 5	Geometridae		Rindgea	s-signata		Pinned		1446	11	5/11/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 7	Geometridae		Stenoporpia	separataria		1 Pinned		1422	11	5/11/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 6	Geometridae		Stenoporpia	separataria		Pinned		1444	11	5/11/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 3	Geometridae		Glaucina	Species 1		Pinned		1418	1	5/11/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 7	Geometridae		Glaucina	Species 1		pinned	1	2008	3	6/1/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 4	Geometridae		Glaucina	Species 2		Pinned	1	1289	1	9/17/2007	UV light #2- do not use in analysis
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 9	Geometridae		Glaucina	Species 2		Pinned		1425	2	5/12/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 12	Geometridae		Synchlora	aerata		Pinned; envelope	1 pinned; 3 envelope	974	4	9/13/2007	UV Light

Hesperiidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Lepidoptera 1	Hesperiidae		Copaeodes	aurantiacus		Pinned	1	442	1	7/6/2007	
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Lepidoptera	Hesperiidae		Erynnis	funeralis		pinned	1	2002	1	5/14/2008	spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera	Hesperiidae		Hylephila	phyleus		Pinned	1	1373	1	9/18/2007	Malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera	Hesperiidae		Hylephila	phyleus		Pinned	1	1386	1	9/14/2007	Spot
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Lepidoptera	Hesperiidae		Hylephila	phyleus		Pinned	2	1008-1009	2	9/10/2007	Spot
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera	Hesperiidae		Lerodea	eufala		Pinned	1	557	1	7/6/2007	
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Lepidoptera	Hesperiidae		Lerodea	eufala		Pinned	1	767	1	7/6/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 7	Hesperiidae		Lerodea	eufala		Pinned	1	827	3	7/6/2007	
YEW	Restored Wetland 4	Arthropoda	Insecta	Lepidoptera 1	Hesperiidae		Lerodea	eufala		none			1	7/14/2008	malaise
YEW	Control Wetland 4	Arthropoda	Insecta	Lepidoptera 1	Hesperiidae		Lerodea	eufala		none			1	7/9/2008	malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Lepidoptera 1	Hesperiidae		Lerodea	eufala		None			9	7/4/2007	Malaise
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera	Hesperiidae		Lerodea	eufala		Pinned	1	831	1	7/9/2007	
YEW	Restored Wetland 2	Arthropoda	Insecta	Lepidoptera 1	Hesperiidae		Lerodea	eufala		Pinned	1	952	1	9/14/2007	Spot
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera	Hesperiidae		Lerodea	eufala		Pinned	1	1096	1	9/15/2007	Malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Lepidoptera	Hesperiidae		Lerodea	eufala		Pinned	1	1316	1	9/17/2007	Spot

YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera	Hesperiidae		Lerodea	eufala		Pinned	1	1374	6	9/18/2007	Malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Lepidoptera 2	Hesperiidae		Lerodea	eufala		Pinned	2	1279; 1316; 839	2	9/17/2007	Spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Lepidoptera 1	Hesperiidae		Lerodea	eufala		Pinned	2	422- 423	2	7/5/2007	
YEW	Control Riparian 4	Arthropoda	Insecta	Lepidoptera	Hesperiidae		Lerodea	eufala		Pinned	2	661- 662	3	7/9/2007	
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera	Hesperiidae		Lerodea	eufala?		None			1	9/14/2007	Malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Lepidoptera	Hesperiidae		Lerodea	eufala		None			1	9/14/2007	Malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Lepidoptera 1	Hesperiidae		Lerodea	eufala		None			9	7/4/2007	Malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Lepidoptera	Hesperiidae		Lerodea	eufala		None			5	7/6/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Lepidoptera 2	Hesperiidae		Pyrgus	albescens		Pinned	1	104	1	6/30/2007	
BWNWR	Reference Riparian 4	Arthropoda	Insecta	Lepidoptera 1	Hesperiidae		Pyrgus	albescens		pinned	1	2225	1	10/9/2008	spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera	Hesperiidae		Pyrgus	albescens		Pinned	1	620	1	6/30/2007	
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Lepidoptera	Hesperiidae		Staphylus	ceos		Pinned	1	1010	1	9/10/2007	Spot
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Lepidoptera	Hesperiidae 2					Pinned	1	839	2	7/6/2007	

Libytheidae

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Riparian 6	Arthropoda	Insecta	Lepidoptera 2	Libytheidae		Libytheana	bachmanii		pinned	1	2218	1	10/9/2008	spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Lepidoptera 1	Libytheidae		Libytheana	bachmanii		none			1	10/8/2008	malaise
BWNWR	Reference Riparian 2	Arthropoda	Insecta	Lepidoptera 1	Libytheidae		Libytheana	bachmanii		none			1	10/9/2008	spot
BWNWR	Reference Riparian 4	Arthropoda	Insecta	Lepidoptera 3	Libytheidae		Libytheana	bachmanii		none			11	10/9/2008	spot
BWNWR	Reference Riparian 4	Arthropoda	Insecta	Lepidoptera 3	Libytheidae		Libytheana	bachmanii		none			1	10/9/2008	uv

Lycaenidae

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Wetland 4	Arthropoda	Insecta	Lepidoptera	Lycaenidae		Brephidium	exile		Pinned	1	362	2	7/4/2007	
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Lepidoptera	Lycaenidae		Brephidium	exile		Pinned	1	1315	1	9/17/2007	Spot
YEW	Restored Wetland 4	Arthropoda	Insecta	Lepidoptera 1	Lycaenidae		Brephidium	exile		Pinned	1	1039	1	9/14/2007	Spot
YEW	Restored Wetland 4	Arthropoda	Insecta	Lepidoptera 3	Lycaenidae		Brephidium	exile		Pinned	1	1041	1	9/14/2007	Spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera 5	Lycaenidae		Brephidium	exile		Pinned	1	1242	2	9/14/2007	Spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera 6	Lycaenidae		Brephidium	exile		Pinned	1	1385	1	9/14/2007	Spot
YEW	Restored Wetland 4	Arthropoda	Insecta	Lepidoptera 2	Lycaenidae		Brephidium	exile		None			1	9/14/2007	Spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Lepidoptera	Lycaenidae		Brephidium	exile		None			2	7/4/2007	spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Lepidoptera	Lycaenidae		Brephidium	exile		None			1	7/4/2007	Malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Lepidoptera	Lycaenidae		Brephidium	exile		None			1	7/5/2007	Spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Lepidoptera	Lycaenidae		Brephidium	exile	none				1	5/7/2008	malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Lepidoptera	Lycaenidae		Brephidium	exile		Pinned	1	1408	1	9/14/2007	Spot
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Lepidoptera	Lycaenidae		Calephelis	nemesis		Pinned	1	1012	1	9/10/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera	Lycaenidae		Hemiargus	ceraunus		Pinned	1	621	3	6/30/2007	
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Lepidoptera	Lycaenidae		Hemiargus	ceraunus	gyus	Pinned	1	768	1	7/6/2007	
YEW	Control Riparian 5	Arthropoda	Insecta	Lepidoptera 4	Lycaenidae		Hemiargus	ceraunus	gyus	None			1	9/16/2007	Spot
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Lepidoptera 2	Lycaenidae		Hemiargus	ceraunus	gyus	Pinned	1	443	1	7/6/2007	
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Lepidoptera	Lycaenidae		Hemiargus	ceraunus	gyus	pinned	1	1955	1	5/6/2008	spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera 4	Lycaenidae		Hemiargus	ceraunus	gyus	none			11	9/20/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera	Lycaenidae		Hemiargus	ceraunus	none				1	5/7/2008	spot
YEW	Control Riparian 5	Arthropoda	Insecta	Lepidoptera	Lycaenidae		Leptotes	marina		Pinned	1	769	1	7/9/2007	

YEW	Adjacent Ag 2	Arthropoda	Insecta	Lepidoptera 3	Lycaenidae		Leptotes	marina		Pinned	2	105	1	6/30/2007	
YEW	Adjacent Ag 5	Arthropoda	Insecta	Lepidoptera	Lycaenidae		Leptotes	marina		Pinned	1	502	6	6/30/2007	
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Lepidoptera	Lycaenidae		Leptotes	marina		Pinned	1	1013	1	9/10/2007	Spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Lepidoptera 1	Lycaenidae		Strymon	melinus	franki	Pinned	1	103	1	6/30/2007	

Noctuidae

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 3	Noctuidae		Gluphisia	septentrionis		pinned	1	2004	2	5/28/2008	uv
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 6	Noctuidae		Gluphisia	septentrionis		Pinned	2	897	6	9/9/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 6	Noctuidae		Furcula	scolopendrina		Pinned	2	893-894	6	9/9/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 1	Noctuidae		Hemeroplanis	incusalis		pinned	1	1997	6	5/14/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 12	Noctuidae		Hemeroplanis	incusalis		pinned		1460	11	5/14/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 1	Noctuidae		Melipotis	indomita		Pinned	1	238	3	6/28/2007	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 5	Noctuidae		Melipotis	indomita		Pinned		1426-1429	4	5/12/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 4	Noctuidae		Forsebia	perlaeta		Pinned	3	887-889	34	9/9/2007	UV Light
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Lepidoptera 2	Noctuidae		Forsebia	perlaeta		Pinned	1	939	1	9/11/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 14	Noctuidae		Forsebia	perlaeta		None			3	9/13/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 15	Noctuidae		Forsebia	perlaeta		None			3	9/13/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 4	Noctuidae		Bulia	deducta		Pinned	3	896	34	9/9/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 3	Noctuidae		Bulia	deducta		Pinned	2	886, 871	11	9/9/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 1	Noctuidae		Bulia	deducta		Pinned		1453, 1452	5	5/14/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 5	Noctuidae		Bulia	deducta		pinned	1	2006	2	5/30/2008	uv
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Lepidoptera1	Noctuidae		Bulia	deducta		none			1	7/18/2008	uv
YEW	Adjacent Ag 5	Arthropoda	Insecta	Lepidoptera1	Noctuidae		Bulia	deducta		pinned	1	2090	1	7/8/2008	malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera 1	Noctuidae		Bulia	deducta		Pinned	1	1122	1	9/13/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 13	Noctuidae		Bulia	deducta		None			8	9/13/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 2	Noctuidae		Bulia	deducta		None			2	9/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 10	Noctuidae		Bulia	deducta		Pinned	1	1232	5	9/14/2007	UV Light
YEW	Control Riparian 5	Arthropoda	Insecta	Lepidoptera 2	Noctuidae		Bulia	deducta		None		1232	1	9/16/2007	Spot
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 15	Noctuidae		Bulia	deducta		None			1	9/16/2007	Spot
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 2	Noctuidae		Bulia	deducta		Pinned	1	279	2	7/3/2007	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 4	Noctuidae		Bulia	deducta		Pinned	1	157	3	6/29/2007	
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 2	Noctuidae		Heteranassa	mima		Pinned	1	602	11	7/3/2007	
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 2	Noctuidae		Heteranassa	mima		Pinned	1	1454	1	5/13/2007	uv
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 3	Noctuidae		Heteranassa	mima		none			11	9/21/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 7	Noctuidae		Heteranassa	mima		none			11	9/19/2008	uv
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 4	Noctuidae		Toxonprucha	Species		pinned	1	2005	5	5/29/2008	uv
BWNWR	Reference Riparian 4	Arthropoda	Insecta	Lepidoptera 6	Noctuidae		Toxonprucha	Species		none			35	10/9/2008	uv
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Lepidoptera 1	Noctuidae		Zale	species		pinned		1445	1	5/9/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 2	Noctuidae		Trichoplusia	ni		Pinned	1	1072	1	9/15/2007	UV Light
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Lepidoptera 1	Noctuidae		Autographa	californica		Pinned	1	938	1	9/11/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 2	Noctuidae		Cobubatha	lixiva		pinned	1	1188	1	9/13/2007	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 8	Noctuidae			Species 1		Pinned	1	1230	1	9/14/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 24	Noctuidae			Species 1		None			3	9/13/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 3	Noctuidae			Species 1		None			2	9/17/2007	UV light #2- do not use in analysis
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 8	Noctuidae		Conochares	arizonae		Pinned	2	1295-1296	150	9/9/2007	UV Light

YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 5	Noctuidae		Acontia	sutor		Pinned	1	282	11	7/3/2007	
BWNWR	Reference Riparian 4	Arthropoda	Insecta	Lepidoptera 8	Noctuidae		Cryphia	viridata		pinned	1	2238	11	10/9/2008	uv
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera	Noctuidae		Spodoptera	exigua		Pinned		1431	1	5/12/2007	
BWNWR	Reference Riparian 4	Arthropoda	Insecta	Lepidoptera 5	Noctuidae		Spodoptera	exigua		none			11	10/9/2008	uv
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 1	Noctuidae		Spodoptera	exigua		none			5	5/5/2008	uv
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 5	Noctuidae		Spodoptera	exigua		Pinned	3	890-892	150	9/9/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 1	Noctuidae		Spodoptera	exigua		none			1	7/10/2008	uv
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 10	Noctuidae		Spodoptera	exigua		None			3	9/18/2007	Spot
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 2	Noctuidae		Spodoptera	exigua		None			1	9/17/2007	UV light #2- do not use in analysis
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Lepidoptera 3	Noctuidae		Spodoptera	exigua		Pinned	1	940	8	9/11/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 8	Noctuidae		Spodoptera	exigua		None			98	9/15/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 7	Noctuidae		Spodoptera	exigua		Pinned	1	1887	7	5/7/2008	uv
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera 1	Noctuidae		Spodoptera	exigua		none			11	9/20/2008	uv
YEW	Adjacent Ag 2	Arthropoda	Insecta	Lepidoptera 1	Noctuidae		Spodoptera	exigua		none			11	9/24/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 2	Noctuidae		Spodoptera	exigua		none			11	9/22/2008	uv
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Lepidoptera 2	Noctuidae		Spodoptera	exigua		none			1	10/8/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 5	Noctuidae		Spodoptera	exigua		none			11	9/19/2008	uv
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 3	Noctuidae		Spodoptera	exigua		Pinned	1	1074	4	9/15/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 4	Noctuidae		Spodoptera	exigua		Pinned	1	281	35	7/3/2007	
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera 2	Noctuidae		Spodoptera	exigua		Pinned	1	1123	5	9/13/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 28	Noctuidae		Spodoptera	exigua		None			1	9/13/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 3	Noctuidae		Spodoptera	exigua		None			70	9/14/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 4	Noctuidae		Spodoptera	exigua		None			7	9/14/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 7	Noctuidae		Spodoptera	exigua		None			1	9/12/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 8	Noctuidae		Spodoptera	exigua		pinned	1	1438	1	5/13-18/07	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 10	Noctuidae		Schinia	intrabilis		Pinned		1443	1	5/11/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 1	Noctuidae		Schinia	intrabilis		none			6	5/5/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 5	Noctuidae		Schinia	intrabilis		Pinned		1456	11	5/14/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 2	Noctuidae		Trichocosmia	inornata		Pinned	1	239	3	6/28/2007	
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 1	Noctuidae		Trichocosmia	inornata		None			1	7/3/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 1	Noctuidae		Trichocosmia	inornata		Pinned	1	278	1	7/3/2007	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 12	Noctuidae		Anarta	alta		Pinned	1	1300	6	9/9/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 2	Noctuidae		Mythimna	unipuncta		Pinned	1	169	3	6/28/2007	
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 2	Noctuidae		Mythimna	unipuncta		Pinned	1	2255	1	5/13-18/07	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 4	Noctuidae		Homorthodes	perturba		pinned		1420, 1421, 1423	76	5/11/2007	UV Light
BWNWR	Reference Riparian 4	Arthropoda	Insecta	Lepidoptera 7	Noctuidae		Homorthodes	perturba		none			35	10/9/2008	uv
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera 8	Noctuidae		Homorthodes	perturba		none			1	5/7/2008	uv
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 6	Noctuidae		Homorthodes	perturba		pinned	1	2007	12	5/31/2008	uv
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 7	Noctuidae		Agrotis	ipsilon		Pinned	1	895	1	9/9/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 4	Noctuidae		Agrotis	ipsilon		Pinned	1	1075	3	9/15/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 1	Noctuidae		Agrotis	ipsilon		Pinned		1430	3	5/12/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 1	Noctuidae		Feltia	subterranea		Pinned	2	167- 168	7	6/28/2007	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 2	Noctuidae		Feltia	subterranea		none			11	7/8/2008	uv
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 5	Noctuidae		Protogygia	album		Pinned	1	1886	1	5/7/2008	uv
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera	Noctuidae		Noctua	pronuba		pinned	1	1866	1	5/7/2008	uv
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 3	Noctuidae		Noctua	pronuba		Pinned	1	1884	2	5/7/2008	uv

BWNWR	Reference Riparian 4	Arthropoda	Insecta	Lepidoptera 4	Noctuidae		Noctua	pronuba		none			11	10/9/2008	uv
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 1	Noctuidae		Helicoverpa	zea		Pinned	2	1071, 1073	2	9/15/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera	Noctuidae		Helicoverpa	zea		Pinned		1447	1	5/14/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera	Noctuidae		Helicoverpa	zea		Pinned		1428	14	5/12/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera	Noctuidae		Helicoverpa	zea		None			11	6/29/2007	UV Light
YEW	Adjacent Ag 2	Arthropoda	Insecta	Lepidoptera	Noctuidae		Helicoverpa	zea		Pinned	1	106	1	6/30/2007	

Nymphalidae

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera	Nymphalidae		Danaus	gilippus	strigosus	Pinned	1	100	1	6/30/2007	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera	Nymphalidae		Danaus	gilippus	none				1	5/5/2008	
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Lepidoptera	Nymphalidae		Danaus	gilippus	none				1	5/5/2008	spot
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera	Nymphalidae		Limenitis	archippus	obsoleta	Pinned		1410	1	5/11/2007	Spot
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Lepidoptera	Nymphalidae		Limenitis	archippus		Pinned	1	490	1	7/1/2007	
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Lepidoptera	Nymphalidae		Limenitis	archippus		pinned	1	2001	1	5/14/2008	spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Lepidoptera	Nymphalidae		Vanessa	cardui		Pinned	1	1012	1	9/11/2007	Spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Lepidoptera	Nymphalidae		Vanessa	cardui		Pinned	1	1321	1	9/13-20/07	
BWNWR	Reference Rip 2	Arthropoda	Insecta	Lepidoptera	Nymphalidae		Vanessa	cardui		Pinned	2	1415	1		
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Lepidoptera1	Nymphalidae			Species 1		pinned	1	2145	1	7/17/2008	spot
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Lepidoptera1	Nymphalidae			Species 1		pinned	1	2147	1		
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Lepidoptera1	Nymphalidae			Species 1		pinned	1	2146	1		

Pieridae

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera	Pieridae		Colias	eurytheme		Pinned	2	101- 102	2	6/30/2007	
YEW	Adjacent Ag 5	Arthropoda	Insecta	Lepidoptera2	Pieridae		Colias	eurytheme		pinned	1 of 2	2058	1	7/8/2008	spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 12	Pieridae		Colias	eurytheme		Pinned	1	1357	1	9/18/2007	Spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Lepidoptera	Pieridae		Eurema	nicippe		Pinned	1	1011	1	9/11/2007	Spot
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Lepidoptera	Pieridae		Eurema	nicippe		Pinned	1	1011	1	9/10/2007	Spot
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera	Pieridae		Pieris	protodice		Pinned	1	1301	1	9/17/2007	Spot
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Lepidoptera	Pieridae		Pieris	rapae		pinned	1	1954	1	5/6/2008	spot
BWNWR	Reference Riparian Cott 6	Mollusca	Insecta	Lepidoptera	Pieridae		Pieris	rapae		none			3	5/14/2008	spot
YEW	Adjacent Ag 5	Arthropoda	Insecta	Lepidoptera2	Pieridae			Species 1		pinned	2 of 2	2059	1	7/8/2008	spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Lepidoptera2	Pieridae			Species 1		pinned	1	2062	1	7/18/2008	spot
YEW	Adj. Ag. 5	Arthropoda	Insecta	Lepidoptera3	Pieridae			Species 2		pinned	1	1990			
BWNWR	Reference Riparian 6	Arthropoda	Insecta	Lepidoptera 3	Pieridae			Species 2		none			1	10/9/2008	spot

Plutellidae

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 7	Plutellidae					Pinned		1457	11	5/14/2007	UV Light

Pyralidae

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 2	Pyralidae		Petrophila	jaliscalis		Pinned		1451	1	5/14/2007	UV Light

YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 3	Pyralidae		Petrophila	jaliscalis		none			8	5/5/2008	uv
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera	Pyralidae		Petrophylla	jaliscolis		pinned	1	1951	3	5/5/2008	uv
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera 1	Pyralidae		Petrophylla	jaliscolis		none			3	5/7/2008	uv
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera	Pyralidae		Petrophylla	jaliscolis		none			3	5/7/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera	Pyralidae		Petrophylla	jaliscolis		none			3	5/7/2008	uv
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera	Pyralidae		Petrophylla	jaliscalus		none			2	5/6/2008	UV
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 6	Pyralidae		Achyra	rantalalis		Pinned	1	1077	39	9/15/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 4	Pyralidae		Achyra	rantalalis		none			11	9/22/2008	uv
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 5	Pyralidae		Achyra	rantalalis		none			11	9/21/2008	uv
YEW	Control Riparian 5	Arthropoda	Insecta	Lepidoptera 3	Pyralidae		Achyra	rantalalis		None		1229	1	9/16/2007	Spot
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 7	Pyralidae		Achyra	rantalalis		Pinned	1	1229	6	9/14/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 13	Pyralidae		Achyra	rantalalis		None			2	9/18/2007	Malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 20	Pyralidae		Achyra	rantalalis		None			3	9/13/2007	UV Light
YEW	Adjacent Ag 5	Arthropoda	Insecta	Lepidoptera 5	Pyralidae		Achyra	rantalalis		None			1	9/18/2007	Malaise
YEW	Adjacent Ag 5	Arthropoda	Insecta	Lepidoptera 1	Pyralidae		Achyra	rantalalis		None			1	9/18/2007	Spot
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 8	Pyralidae		Achyra	rantalalis		pinned	1	2009	5	6/2/2008	uv
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 4	Pyralidae		Achyra	rantalalis		Pinned	1	1885	21	5/7/2008	uv
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 5	Pyralidae		Achyra	rantalalis		Pinned	1	204	11	6/28/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 0	Pyralidae		Achyra	rantalalis		Pinned	1	1187	1	9/17/2007	uv
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Lepidoptera 1	Pyralidae		Achyra	rantalalis		None			1	9/17/2007	Spot
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 2	Pyralidae		Achyra	rantalalis		none			1	7/9/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 0	Pyralidae		Achyra	rantalalis		Pinned	1	1186	1	9/17/2007	
YEW	Control Wetland 2	Arthropoda	Insecta	Lepidoptera	Pyralidae		Pyrausta	onythesalis		Pinned	1	1159	1	9/15/2007	Spot
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 8	Pyralidae		Pyrausta	onythesalis		none			11	9/19/2008	uv
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera 9	Pyralidae		Nomophila	nearctica		pinned	1	1871	1	5/7/2008	uv
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera 1	Pyralidae		Nomophila	nearctica		none			11	7/10/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 1	Pyralidae		Nomophila	nearctica		none			11	7/8/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 1	Pyralidae		Nomophila	nearctica		none			11	7/8/2008	uv
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 1	Pyralidae		Nomophila	nearctica		none			35	7/17/2008	uv
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 3	Pyralidae		Nomophila	nearctica		none			1	7/17/2008	malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 3	Pyralidae		Nomophila	nearctica		none			11	7/8/2008	uv
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Lepidoptera 5	Pyralidae		Nomophila	nearctica		none			1	10/8/2008	uv
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera 6	Pyralidae		Lygropia	octonalis		pinned	1	1869	1	5/7/2008	uv
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 2	Pyralidae		Lygropia	octonalis		none			11	7/17/2008	malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Lepidoptera 3	Pyralidae		Lygropia	octonalis		none			1	7/14/2008	malaise
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Lepidoptera 3	Pyralidae		Lygropia	octonalis		none			1	10/8/2008	uv
YEW	Adjacent Ag 2	Arthropoda	Insecta	Lepidoptera 1	Pyralidae		Euchromius	ocelleus		pinned	1	2088	1		malaise
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 11	Pyralidae		Euchromius	ocelleus		Pinned	1	1233	11	9/14/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 7	Pyralidae		Euchromius	ocelleus		None		1233	1	9/14/2007	UV Light
YEW	Adjacent Ag 2	Arthropoda	Insecta	Lepidoptera 1	Pyralidae		Euchromius	ocelleus		None			7	9/18/2007	Spot
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 21	Pyralidae		Euchromius	ocelleus		None			3	9/13/2007	UV Light
YEW	Adjacent Ag 2	Arthropoda	Insecta	Lepidoptera 3	Pyralidae		Euchromius	ocelleus		None			1	9/18/2007	Malaise
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 5	Pyralidae		Euchromius	ocelleus		Pinned	1	1076	18	9/15/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 3	Pyralidae		Euchromius	ocelleus		Pinned	1	170	35	6/28/2007	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Lepidoptera 5	Pyralidae		Euchromius	ocelleus		Pinned	1	947	3	9/11/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 4	Pyralidae		Euchromius	ocelleus		none			1	9/22/2008	uv
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 3	Pyralidae		Euchromius	ocelleus		Pinned	1	983-984	5	9/12/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 1	Pyralidae		Euchromius	ocelleus		ETOH				5/13/2007	UV Light

YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 11			Passadena	flavidorsella		Pinned		1424	1	5/12/2007	UV Light
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Riodinidae

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Lepidoptera	Riodinidae		Apodemia	palmerii	arizona	Pinned	1	1007	1	9/11/2007	Spot
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Lepidoptera	Riodinidae		Apodemia	palmeri		Pinned	1	1007	1	9/10/2007	Spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Lepidoptera	Riodinidae		Calephelis	nemesis	nemesis	Pinned	1	1012	1	9/11/2007	Spot

Sphingidae

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera	Sphingidae		Manduca	sp.		pinned		1434	1	5/12/2007	UV light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera	Sphingidae		Laothoe	sp.		Pinned		1417	1	5/11/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera	Sphingidae					Pinned	1	200	1	7/1/2007	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 2	Sphingidae		Hyles	linata		Pinned	3	884, 872	3	9/9/2007	UV Light
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 1	Sphingidae					Pinned	1	879	1	9/9/2007	UV Light

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 11						Pinned	2	130; 969	130	9/13/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 3						Pinned	1	156	2	6/29/2007	
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera 4						ETOH	1	354	1	7/4/2007	
YEW	Adjacent Ag 5	Arthropoda	Insecta	Lepidoptera						ETOH	3	385	11	6/30/2007	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 1						Envelope	1	422-423	11	6/29/2007	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 1						none			1	7/8/2008	malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Lepidoptera 1						none			1	9/20/2008	malaise
YEW	Restored Wetland 4	Arthropoda	Insecta	Lepidoptera 1						none			1	9/20/2008	malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Lepidoptera 1						none			1	9/23/2008	malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Lepidoptera 1						none			1	9/23/2008	spot
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 1						none			1	9/21/2008	malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 1						none			1	9/19/2008	spot
YEW	Control Riparian 4	Arthropoda	Arachnida	Lepidoptera 1						none			1	9/23/2008	spot
YEW	Adjacent Ag 5	Arthropoda	Insecta	Lepidoptera 1						none			1	9/24/2008	malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Lepidoptera 1						none			1	9/22/2008	malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 6						ETOH	1	552	1	7/6/2007	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera						ETOH	2	617	2	6/30/2007	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 1						Pinned	1	642	1	7/1/2007	
YEW	Control Riparian 5	Arthropoda	Insecta	Lepidoptera						ETOH	1	643	1	7/9/2007	
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Lepidoptera 2						Pinned	1	910	1	9/10/2007	Spot
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 2						Pinned	1	981	23	9/12/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 7						Pinned	1	1078	41	9/15/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera						none			11	7/10/2008	uv
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera 2						none			35	7/10/2008	uv
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 2						none			150	7/9/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 2						none			76	7/8/2008	uv
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Lepidoptera 2						none			11	7/17/2008	malaise

YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera3						none			35	7/9/2008	uv
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera5						none			76	7/8/2008	uv
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera 3						Pinned	1	1124	1	9/13/2007	UV Light
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera 4						Pinned	1	1127	22	9/13/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 6						None			3	9/17/2007	UV light #2- do not use in analysis
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 6						Pinned	1	1228	1	9/14/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 19						None			3	9/13/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 2						none			11	9/21/2008	uv
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 3						none			11	9/22/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 12						Pinned	1	1234	9	9/14/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 17						None			19	9/13/2007	UV Light
YEW	Adjacent Ag 5	Arthropoda	Insecta	Lepidoptera 6						None			2	9/18/2007	Malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 7						None			4	9/17/2007	UV light #2- do not use in analysis
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 9						None			1	9/18/2007	Malaise
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 13						Pinned	1	1235	3	9/14/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 8						None			3	9/17/2007	UV light #2- do not use in analysis
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 1						none			2	5/6/2008	UV
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 26						Pinned	1	1280	1	9/13/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 27						Pinned	1	1281	6	9/13/2007	UV Light
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Lepidoptera 2						Pinned	1	1285	4	9/17/2007	Malaise
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Lepidoptera						none			11	7/10/2008	malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 9						None			6	9/17/2007	UV light #2- do not use in analysis
YEW	Adjacent Ag 5	Arthropoda	Insecta	Lepidoptera 2						ETOH	1	1346	1	9/18/2007	Spot
YEW	Adjacent Ag 5	Arthropoda	Insecta	Lepidoptera 3						ETOH	5	1347	5	9/18/2007	Spot
YEW	Adjacent Ag 5	Arthropoda	Insecta	Lepidoptera 4						ETOH	4	1348	4	9/18/2007	Spot
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera 8						1 Pinned		1419	11	5/11/2007	UV Light
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera 2						Pinned		1435	1	5/12/2007	UV light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Lepidoptera 2						Pinned		1450	1	5/13/2007	Malaise
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 3						none			5	5/5/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 10						Pinned		1455	2	5/14/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 1						none			35	9/22/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 1						none			1	9/19/2008	malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 1						none			1	9/19/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 1						none			76	9/22/2008	uv
YEW	Adjacent Ag 2	Arthropoda	Insecta	Lepidoptera 1						none			11	9/24/2008	malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Lepidoptera 3						none			150	9/24/2008	uv
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Lepidoptera 4						none			11	9/21/2008	uv
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 3						none			11	5/5/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 8						none			2	5/7/2008	uv
YEW	Control Wetland 2	Arthropoda	Insecta	Leipdoptera						Pinned		1744	1	5/21/2007	Spot
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Lepidoptera 1						none			11	10/8/2008	uv
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera1						none			11	7/9/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera1						none			1	7/9/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera1						none			1	7/10/2008	malaise

YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera3						none			35	7/8/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 3						Pinned		1947	1	5/13/2007	
YEW	Adjacent Ag 2	Arthropoda	Insecta	Lepidoptera3						pinned	1	2063	1	7/18/2008	spot
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Lepidoptera1						pinned	1	2083	1	7/7/2008	malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Lepidoptera2						pinned	1	2096	1	7/7/2008	spot
YEW	Restored Wetland 4	Arthropoda	Insecta	Lepidoptera2						none			1	7/14/2008	malaise
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Lepidoptera4						pinned	1	2159	1	7/17/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 10						pinned	1	2213	11	9/19/2008	uv
YEW	Restored Wetland 4	Arthropoda	Insecta	Lepidoptera 2						pinned		2181	11	9/20/2008	malaise
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 2						pinned	1	2232	1	9/19/2008	spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Lepidoptera 5						pinned		2206	1	9/20/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 6						none			11	9/19/2008	uv
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Lepidoptera 1						None			1	9/17/2007	Malaise
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Lepidoptera 1						None			1	9/17/2007	Malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Lepidoptera 2						None			1	9/18/2007	Spot
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 16						None			1	9/16/2007	Spot
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Lepidoptera 1						None			11	9/17/2007	UV light #2- do not use in analysis
YEW	Control Wetland 3	Arthropoda	Insecta	Lepidoptera 2						none			3	5/5/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 4						none			4	5/5/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Lepidoptera 5						none			2	5/5/2008	uv

Mantodae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Control Wetland 3	Arthropoda	Insecta	Mantodae	Mantidae		Species 1		1	1	1953	1	5/5/2008	uv
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Mantodae	Mantidae		Species 2		Pinned	1	980	1	9/12/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Mantodae	Mantidae		Species 2		Pinned	2	266- 267	2	7/3/2007	

BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Mantodae	Mantidae				ETOH	1	904	1	9/9/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Mantodae	Mantidae				ETOH		2044	1	7/8/2008	uv

Neuroptera

Chrysopidae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Neuroptera 1	Chrysopidae		Species #1 (Green)		Pinned; envelope	1 pinned; 2 envelope	972	3	9/13/2007	UV Light
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Nueroptera	Chrysopidae		Species #1 (Green)		Pinned		1710	1	5/12/2007	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Neuroptera	Chrysopidae		Species #1 (Green)		Pinned	3	171- 173	14	6/28/2007	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Nueroptera	Chrysopidae		Species #1 (Green)		Pinned	1	909	1	9/9/2007	UV Light
BWNWR	Reference Riparian 4	Arthropoda	Insecta	Neuroptera 1	Chrysopidae		Species #1 (Green)		none			1	10/9/2008	uv
YEW	Adjacent Ag 1	Arthropoda	Insecta	Neuroptera	Chrysopidae		Species #1 (Green)		Pinned	1	1084	3	9/15/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Neuroptera1	Chrysopidae		Species #1 (Green)		none			11	7/8/2008	uv
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Neuroptera2	Chrysopidae		Species #1 (Green)		pinned	1	1280	1	9/15/2007	
YEW	Control Riparian 2	Arthropoda	Insecta	Neuroptera	Chrysopidae		Species #1 (Green)		Pinned		1714	1	5/20/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Neuroptera	Chrysopidae		Species #2 (Brown)		pinned		1712	1	5/13/2007	UV Light

YEW	Control Riparian 2	Arthropoda	Insecta	Neuroptera	Chrysopidae			Species #2 (Brown)		Pinned	1	595	3	7/3/2007	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Neuroptera 1	Chrysopidae			Species #2 (Brown)		none			1	7/17/2008	uv
YEW	Adjacent Ag 1	Arthropoda	Insecta	Neuroptera	Chrysopidae			Species #2 (Brown)		Pinned		1711	1	5/13/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Neuroptera	Chrysopidae			Species #2 (Brown)		Pinned	1	231	1	6/28/2007	
YEW	Control Wetland 3	Arthropoda	Insecta	Neuroptera	Chrysopidae			Species #2 (Brown)		Pinned	1	275	2	7/3/2007	
YEW	Control Wetland 3	Arthropoda	Insecta	Neuroptera	Chrysopidae			Species #2 (Brown)		Pinned	1	276	1	7/3/2007	

Myrmelontidae

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Neuroptera	Myrmelontidae					Pinned		1738	1	5/17/2007	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Neuroptera	Myrmeleontidae					none			11	7/10/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Neuroptera	Myrmeleontidae					Pinned	1	232	1	6/28/2007	
YEW	Control Wetland 3	Arthropoda	Insecta	Neuroptera	Myrmeleontidae					Pinned	3	240- 242	3	7/3/2007	
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Neuroptera 1	Myrmeleontidae					none			1	9/21/2008	uv
YEW	Control Wetland 3	Arthropoda	Insecta	Neuroptera 1	Myrmeleontidae					none			1	7/9/2008	uv
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Neuroptera	Myrmeleontidae					Pinned	1	118	1	6/29/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Nuroptera	Myrmelionidae					Pinned	1	1208	2	9/13/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Neuroptera	Myrmelontidae					Pinned	1	1220	1	9/14/2007	UV Light
YEW	Control Riparian 5	Arthropoda	Insecta	Nuroptera	Myrmelontidae					Pinned	1	1245	1	9/16/2007	Spot
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Neuroptera	Myrmelionidae					pinned	1	1879	1	5/6/2008	UV

Odonata

Aeshinidae

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Wetland 2	Arthropoda	Insecta	Odonata 6	Aeshinidae			Species 1		Pinned	3	1335-1337	7	9/14/2007	Spot
YEW	Control Riparian 5	Arthropoda	Insecta	Odonata 1	Aeshinidae			Species 1		none			1	9/21/2008	spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Odonata 1	Aeshinidae			Species 1		none			1	7/18/2008	malaise
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Odonata 1	Aeshinidae			Species 1		none			1	9/21/2008	spot
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata 1	Aeshinidae			Species 1		Pinned	1	932	1	9/11/2007	Spot

Calopterygidae

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Odonata 4	Calopterygidae		Hetaerina	americana		Pinned, envelope	7	996-999 ; 1003	7	9/10/2007	Spot
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Odonata 1	Calopterygidae		Hetaerina	americana		none			1	7/17/2008	spot
BW NWR	Ref. Rip 2	Arthropoda	Insecta	Odonata 2	Calopterygidae		Hetaerina	americana		pinned	1	501	1		
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Odonata 1	Calopterygidae		Hetaerina	americana		none			1	9/19/2008	spot
BWNWR	Reference Riparian 6	Arthropoda	Insecta	Odonata 3	Calopterygidae		Hetaerina	americana		none			1	10/9/2008	spot

Coengrionidae

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata 4	Coengrionidae			Species 1		Pinned	1	740	1	7/2/2007	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata 3	Coengrionidae			Species 1		Pinned	1	405	1	7/2/2007	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata 5	Coengrionidae			Species 1		Pinned	1	790	1	7/2/2007	

BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata 7	Coengrionidae			Species 1		Pinned	2	1138 and 1139	2	9/11/2007	Malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Odonata 2	Coengrionidae			Species 1		Pinned	1	951	1	9/14/2007	Spot
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata 1	Coengrionidae			Species 1		none			1	10/8/2008	malaise
YEW	Control Wetland 3	Arthropoda	Insecta	Odonata 2	Coengrionidae			Species 1		none			1	9/22/2008	malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Odonata	Coengrionidae			Species 1		none			1	7/11/2008	spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Odonata	Coengrionidae			Species 1		none			1	7/10/2008	uv
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Odonata 1	Coengrionidae			Species 1		Pinned	1	992	1	9/10/2007	Spot
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata 3	Coengrionidae			Species 1		Pinned	1	934	1	9/11/2007	Spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Odonata 4	Coengrionidae			Species 1		Pinned	1	1069	1		
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Odonata 8	Coengrionidae			Species 2		Pinned	1	1060	1	9/10/2007	Spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Odonata 9	Coengrionidae			Species 2		Pinned	1	1100	1		
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata 4	Coengrionidae			Species 2		Pinned	1	937	1	9/11/2007	UV Light
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Odonata 7	Coengrionidae			Species 2		Pinned	1	730	1	7/2/2007	
YEW	Control Riparian 2	Arthropoda	Insecta	Odonata 2	Coengrionidae			Species 2		none			1	9/22/2008	spot
YEW	Control Wetland 3	Arthropoda	Insecta	Odonata 3	Coengrionidae			Species 3		Pinned	2	1292 and 1293	2	9/15/2007	Malaise
YEW	Control Riparian 4	Arthropoda	Insecta	Odonata	Coengrionidae			Species 3		none			1	7/10/2008	Spot
YEW	Control Riparian 2	Arthropoda	Insecta	Odonata3	Coengrionidae			Species 3		none			1	7/10/2008	spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Odonata 2	Coengrionidae			Species 3		Pinned	1	1121	1	9/13/2007	UV Light
YEW	Restored Wetland 1	Arthropoda	Insecta	Odonata 2	Coengrionidae			Species 4		pinned	1	1881	1	5/7/2008	spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Odonata 1	Coengrionidae			Species 4		pinned	1	1877	1	5/7/2008	spot
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Odonata3	Coengrionidae			Species 5		pinned	1	2119	1	7/17/2008	spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Odonata 1	Coengrionidae			Species 6		Pinned	1	107	1	6/30/2007	
YEW	Control Wetland 3	Arthropoda	Insecta	Odonata1	Coengrionidae			Species 6		none			1	7/9/2008	spot
YEW	Control Wetland 2	Arthropoda	Insecta	Odonata4	Coengrionidae			Species 6		none			1	7/9/2008	spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Odonata 2	Coengrionidae			Species 6		Pinned	1	108	1	6/30/2007	
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Odonata	Coengrionidae			Species 6		none			1	7/10/2008	malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Odonata 1	Coengrionidae			Species 6		Pinned	1	1161	1	9/15/2007	Spot
YEW	Control Wetland 3	Arthropoda	Insecta	Odonata 1	Coengrionidae			Species 6		none			1	9/22/2008	spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Odonata 2	Coengrionidae			Species 6		Pinned	1	398	1	7/4/2007	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata 2	Coengrionidae			Species 6		Pinned	2	403- 404	2	7/2/2007	
YEW	Adjacent Ag 1	Arthropoda	Insecta	Odonata	Coengrionidae			Species 6		Pinned	1	622	1	6/30/2007	
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Odonata 2	Coengrionidae			Species 7		Pinned	1	1025	1	9/11/2007	Malaise
YEW	Control Riparian 4	Arthropoda	Insecta	Odonata 2	Coengrionidae			Species 7		Pinned	1	668	1	7/9/2007	
YEW	Control Wetland 3	Arthropoda	Insecta	Odonata	Coengrionidae			Species 7		Pinned	1	757	1	7/10/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Odonata	Coengrionidae			Species 7		Pinned	1	1305	1	9/17/2007	Spot
YEW	Control Riparian 3	Arthropoda	Insecta	Odonata 1	Coengrionidae			Species 7		none			1	9/23/2008	malaise
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Odonata 1	Coengrionidae			Species 7		none			1	9/19/2008	malaise
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Odonata 6	Coengrionidae			Species 7		Pinned	1	1001	1	9/10/2007	Spot
YEW	Control Wetland 2	Arthropoda	Insecta	Odonata 3	Coengrionidae			Species 7		Pinned	1	855	1	7/10/2007	
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Odonata 2	Coengrionidae			Species 8		pinned		2230	1	9/19/2008	spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Odonata 1	Coengrionidae			Species 8		pinned		2199	1	9/23/2008	spot
YEW	Control Wetland 2	Arthropoda	Insecta	Odonata 1	Coengrionidae			Species 9		pinned		2191	1	9/22/2008	spot
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Odonata 4	Coengrionidae			Species 10		Pinned	1	1270	1	9/17/2007	Spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Odonata 9	Coengrionidae			Species 11		Pinned	1	1163	1	9/14/2007	Spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Odonata 7	Coengrionidae			Species 11		Pinned	1	1340	1	9/14/2007	Spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Odonata 3	Coengrionidae			Species 11		Pinned	1	1241	1	9/14/2007	Spot

Gomphidae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Odonata	Gomphidae	Erpetogomphus	lampropeltus		Pinned	1	1304	1	9/17/2007	Spot
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Odonata1	Gomphidae	Erpetogomphus	lampropeltus		none			1	7/17/2008	spot
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Odonata 2	Gomphidae	Erpetogomphus	lampropeltus		Pinned	1	1406	1	9/13/2007	Spot
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Odonata 2	Gomphidae	Erpetogomphus	compositus		Pinned	1	1264	1	9/17/2007	Spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Odonata 4	Gomphidae	Erpetogomphus	compositus		Pinned	1	1333	1	9/14/2007	Spot
YEW	Control Riparian 2	Arthropoda	Insecta	Odonata 1	Gomphidae	Erpetogomphus	compositus		none			1	9/22/2008	spot
YEW	Control Riparian 5	Arthropoda	Insecta	Odonata 2	Gomphidae	Erpetogomphus	compositus		none			1	9/19/2008	spot
YEW	Control Wetland 3	Arthropoda	Insecta	Odonata 3	Gomphidae	Erpetogomphus	compositus		none			1	9/22/2008	spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Odonata 4	Gomphidae	Erpetogomphus	compositus			1		1	9/13-20/09	

Libellulidae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Odonata	Libellulidae	Brechmorhoga	mendax		Pinned	1	1014	1	9/10/2007	Spot
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Odonata 1	Libellulidae	Brechmorhoga	mendax		Pinned	2	1005, 1006	2	9/10/2007	Spot
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Odonata2	Libellulidae	Brechmorhoga	mendax		none			1	7/17/2008	spot
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Odonata 5	Libellulidae	Brechmorhoga	mendax		Pinned	1	1000	1	9/10/2007	Spot
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Odonata 2	Libellulidae	Brechmorhoga	mendax		Pinned	2	993, 994	2	9/10/2007	Spot
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata 6	Libellulidae	Brechmorhoga	mendax		Pinned	1	791	1	7/2/2007	
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Odonata 4	Libellulidae	Brechmorhoga	mendax		Pinned	1	721	1	7/2/2007	blue
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Odonata 3	Libellulidae	Brechmorhoga	mendax		none			1	10/8/2008	spot
YEW	Control Wetland 4	Arthropoda	Insecta	Odonata1	Libellulidae	Brechmorhoga	mendax		none			1	7/9/2008	spot
YEW	Control Riparian 2	Arthropoda	Insecta	Odonata1	Libellulidae	Brechmorhoga	mendax		none			1	7/10/2008	spot
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Odonata4	Libellulidae	Brechmorhoga	mendax		none			1	7/18/2008	spot
YEW	Control Wetland 2	Arthropoda	Insecta	Odonata2	Libellulidae	Brechmorhoga	mendax		none			1	7/9/2008	spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Odonata 6	Libellulidae	Brechmorhoga	mendax		Pinned	1	1339	1	9/14/2007	Spot
YEW	Control Riparian 5	Arthropoda	Insecta	Odonata 2	Libellulidae	Brechmorhoga	mendax		Pinned	1	1250	3	9/16/2007	Spot
YEW	Control Wetland 3	Arthropoda	Insecta	Odonata 2	Libellulidae		Species 1		Pinned	1	1067	1	9/15/2007	Spot
YEW	Control Riparian 2	Arthropoda	Insecta	Odonata2	Libellulidae		Species 1		none			1	7/10/2008	spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Odonata 1	Libellulidae		Species 1		Pinned	2	949-950	2	9/14/2007	Spot
YEW	Control Riparian 4	Arthropoda	Insecta	Odonata 1	Libellulidae		Species 1		none			1	9/23/2008	spot
	Control Wetland 2	Arthropoda	Insecta	Odonata3					none			1		spot
YEW	Control Wetland 4	Arthropoda	Insecta	Odonata2	Libellulidae		Species 1		none			1	7/9/2008	spot
YEW	Control Wetland 2	Arthropoda	Insecta	Odonata 2	Libellulidae		Species 1		Pinned	1	1162	1	9/15/2007	Spot
YEW	Control Wetland 4	Arthropoda	Insecta	Odonata 1	Libellulidae		Species 1		Pinned	2	777- 778	2	7/10/2007	
YEW	Restored Wetland 2	Arthropoda	Insecta	Odonata 5	Libellulidae		Species 1		Pinned	1	1334	1	9/14/2007	Spot
YEW	Restored Wetland 4	Arthropoda	Insecta	Odonata 2	Libellulidae		Species 1		Pinned	1	1044	1	9/14/2007	Spot
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Odonata	Libellulidae		Species 1		Pinned	1	109	1	6/29/2007	
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Odonata 7	Libellulidae		Species 1		Pinned	2	406- 407	2	7/2/2007	
YEW	Control Wetland 2	Arthropoda	Insecta	Odonata 4	Libellulidae		Species 1		Pinned	2	1164-1165	2	9/15/2007	Spot
YEW	Control Riparian 4	Arthropoda	Insecta	Odonata 1	Libellulidae		Species 1		Pinned	2	663- 664	2	7/9/2007	
YEW	Control Wetland 4	Arthropoda	Insecta	Odonata 2	Libellulidae		Species 1		none			1	7/9/2008	malaise
YEW	Control Wetland 4	Arthropoda	Insecta	Odonata 1	Libellulidae		Species 1		Pinned	2	777- 778	2	7/10/2007	
YEW	Restored Wetland 2	Arthropoda	Insecta	Odonata 5	Libellulidae		Species 1		Pinned	1	1334	1	9/14/2007	Spot
YEW	Restored Wetland 4	Arthropoda	Insecta	Odonata 2	Libellulidae		Species 1		Pinned	1	1044	1	9/14/2007	Spot

YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Odonata	Libellulidae			Species 1		Pinned	1	109	1	6/29/2007	
YEW	Restored Wetland 1	Arthropoda	Insecta	Odonata 5	Libellulidae			Species 2		Pinned	1	1338	1	9/14/2007	Spot
YEW	Restored Wetland 4	Arthropoda	Insecta	Odonata 4	Libellulidae			Species 3		Pinned	1	1405	1	9/14/2007	Spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Odonata 4	Libellulidae		Tramea	sp.		Pinned	1	1387	1	9/14/2007	Spot
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Odonata 2	Libellulidae		Tramea	sp.		none			1	9/21/2008	spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Odonata 3	Libellulidae			Species 4		Pinned	1	1332	1	9/14/2007	Spot
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Odonata 1	Libellulidae			Species 5		Pinned	1	1403	1	9/13/2007	Spot
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Odonata 1	Libellulidae			Species 5		Pinned	1	1263	1	9/17/2007	Spot
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Odonata 1	Libellulidae			Species 6		Pinned	1	439	1	7/6/2007	

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Odonata 1						ETOH	4	304	4	7/2/2007	
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Odonata 2						ETOH	1	306	1	7/2/2007	
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Odonata 3						ETOH	1	307	1	7/2/2007	
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Odonata 1						ETOH	1	312	1	7/2/2007	
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Odonata 4						ETOH	1	337	1	7/2/2007	
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Odonata 5						ETOH	1	338	1	7/2/2007	
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Odonata 6						ETOH	3	339	3	7/2/2007	
YEW	Restored Wetland 1	Arthropoda	Insecta	Odonata 1						ETOH	2	349	1	7/4/2007	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata 1						Pinned	1	402	1	7/2/2007	
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Odonata 1						Pinned	1	448	1	7/1/2007	
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Odonata 2						Pinned	1	449	1	7/1/2007	
YEW	Control Wetland 2	Arthropoda	Insecta	Odonata 1						Pinned	1	452	1	7/10/2007	
YEW	Control Wetland 2	Arthropoda	Insecta	Odonata 2						Pinned	1	453	1	7/10/2007	
YEW	Restored Wetland 2	Arthropoda	Insecta	Odonata 1						Envelope	1	630	1	7/4/2007	
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Odonata 2						Pinned and Envelope	1 and 1	702, 703	2	7/2/2007	
YEW	Restored Wetland 4	Arthropoda	Insecta	Odonata 1						none			1	9/20/2008	spot
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Odonata 3						none			1	9/21/2008	spot
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata2						none			1	7/18/2008	uv
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Odonata 3						Pinned	1	704	1	7/2/2007	red
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata2						none			1	7/18/2008	spot
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Odonata3						none			1	7/18/2008	spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Odonata						none			11	7/18/2008	spot
YEW	Control Wetland 4	Arthropoda	Insecta	Odonata 2						ETOH	2	756	2	7/10/2007	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata 2						Pinned	1	933	1	9/11/2007	Spot
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Odonata 1						none			1	9/21/2008	spot
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata1						none			1	7/18/2008	uv
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Odonata 1						ETOH	2	958	2	9/11/2007	Spot
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata 4						ETOH	8	962	8	9/11/2007	Spot
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata 5						ETOH	2	963	2	9/11/2007	Spot
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata 6						ETOH	2	964	2	9/11/2007	Spot
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Odonata 1						Envelope	2	973	2	9/13/2007	UV Light
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Odonata 3						Pinned	1	995	1	9/10/2007	Spot
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Odonata 2						Pinned	1	1014	1	9/10/2007	Spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Odonata 1						ETOH	3	1030	3	9/14/2007	Spot

YEW	Control Wetland 4	Arthropoda	Insecta	Odonata 1						ETOH	1	1034	1	9/15/2007	Spot
YEW	Restored Wetland 4	Arthropoda	Insecta	Odonata 1						Pinned	1	1038	1	9/14/2007	Spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Odonata 8						Pinned	1	1038	1	9/14/2007	Spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Odonata 9						none			1	7/10/2008	malaise
YEW	Restored Wetland 2	Arthropoda	Insecta	Odonata 5						none			1	9/20/2008	spot
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Odonata 7						Pinned	1	1059	1	9/10/2007	Spot
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Odonata 8						Pinned	1	1060	1	9/10/2007	Spot
YEW	Control Wetland 3	Arthropoda	Insecta	Odonata 1						Envelope	2	1066	2	9/15/2007	Spot
YEW	Control Wetland 2	Arthropoda	Insecta	Odonata 5						Pinned	1	1166	1	9/15/2007	Spot
YEW	Control Riparian 4	Arthropoda	Insecta	Odonata 1						Envelope	2	1197	2	9/16/2007	Spot
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Odonata 3						Envelope	3	1269	3	9/17/2007	Spot
YWW	Mature Restored Rip. 6	Arthropoda	Insecta	Odonata 2						Envelope	1	1271	1	9/17/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Odonata 1						Envelope	1	1345	1	9/18/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Odonata 2						Envelope	1	1360	1	9/18/2007	Spot
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Odonata 2						Pinned	1	1754	1	5/15/2008	Malaise
YEW	Control Wetland 2	Arthropoda	Insecta	Odonata 1						ETOH	2	1963	2	5/9/2008	spot
YEW	Control Wetland 2	Arthropoda	Insecta	Odonata 2						pinned	1	1967	1	5/9/2008	spot
YEW	Control Wetland 4	Arthropoda	Insecta	Odonata						ETOH	1	1975	1	5/9/2008	spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Odonata 1						ETOH	1	2011	1	5/15/2008	spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Odonata 2						ETOH	2	2014	2	5/15/2008	spot
YEW	Control Wetland 2	Arthropoda	Insecta	Odonata1						ETOH	1	2039	1	7/9/2008	spot
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Odonata4						pinned	1	2120	1	7/17/2008	malaise
YEW	Adjacent Ag 2	Arthropoda	Insecta	Odonata1						pinned	1	2143	1	7/18/2008	spot
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata3						ETOH	1	2152	1	7/18/2008	spot
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata4						ETOH	1	2153	11	7/18/2008	spot
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata5						ETOH	1	2154	1	7/18/2008	spot
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Odonata1						ETOH	1	2156	1	7/18/2008	spot
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Odonata2						ETOH	1	2157	1	7/18/2008	spot
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Odonata2						pinned	1	2160	1	7/17/2008	spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Odonata 1						ETOH		2171		9/20/2008	spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Odonata 1						pinned		2187		9/20/2008	spot
BWNWR	Reference Riparian 6	Arthropoda	Insecta	Odonata 1						pinned	1	2219	1	10/9/2008	spot
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Odonata 1						pinned	1	2223	1	10/8/2008	spot
BWNWR	Reference Riparian 4	Arthropoda	Insecta	Odonata 1						pinned		2227	1	10/9/2008	spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Odonata 1						ETOH		2242	1	10/8/2008	spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Odonata 2						ETOH		2172		9/20/2008	spot
YEW	Restored Wetland 4	Arthropoda	Insecta	Odonata 2						pinned		2175		9/20/2008	spot
YEW	Control Wetland 2	Arthropoda	Insecta	Odonata 2						pinned		2192	1	9/22/2008	spot
BWNWR	Reference Riparian 6	Arthropoda	Insecta	Odonata 2						pinned	1	2220	1	10/9/2008	spot
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Odonata 2						pinned	1	2224	1	10/8/2008	spot
BWNWR	Reference Wetland 2	Arthropoda	Insecta	Odonata 2						ETOH		2243	1	10/8/2008	spot
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata 2						ETOH		2249	1	10/8/2008	spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Odonata 3						ETOH		2173		9/20/2008	spot
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Odonata 3						ETOH		2250	1	10/8/2008	spot
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Odonata 4						pinned		2202		9/21/2008	spot
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Odonata 4						ETOH		2247	11	10/8/2008	spot
BWNWR	Reference Wetland 3	Arthropoda	Arachnida	Odonata 4						ETOH		2251	1	10/8/2008	spot
YEW	Control Wetland 4	Arthropoda	Insecta	Odonata3						none			1	7/9/2008	spot

YEW	Restored Wetland 2	Arthropoda	Insecta	Odonata 4						none			1	9/20/2008	spot
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Odonata 5						none			1	9/21/2008	malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Odonata 2						none				9/20/2008	uv

Orthoptera

Acrididae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Wetland 2	Arthropoda	Insecta	Orthoptera 1	Acrididae			Species 1		pinned	1	2252	1	9/7/2008	
YEW	Restored Wetland 4	Arthropoda	Insecta	Orthoptera 1	Acrididae			Species 1		Pinned	1	1036	1	9/14/2007	Spot
YEW	Restored Wetland 4	Arthropoda	Insecta	Orthoptera 2	Acrididae			Species 1		Pinned	1	1037	1	9/14/2007	Spot
YEW	Adjacent Ag 1	Arthropoda	Insecta	Orthoptera 1	Acrididae			Species 1		Pinned	1	1343	1	9/18/2007	Spot

Acrididae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Wetland 2	Arthropoda	Insecta	Orthoptera 3	Acrididae	Acridinae		Species 1				2180		9/20/2008	spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Orthoptera	Acrididae	Acridinae		Species 2		pinned		2047	1	7/11/2008	spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Orthoptera 1	Acrididae	Acridinae		Species 2		pinned	1	2097	1	7/11/2008	spot
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Orthoptera 1	Acrididae	Acridinae		Species 2		pinned	1	2116	1	7/17/2008	spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Orthoptera 1	Acrididae	Acridinae		Species 2		pinned		2178	1	9/20/2008	spot
BWNWR	Reference Riparian 4	Arthropoda	Insecta	Orthoptera 1	Acrididae	Acridinae		Species 2		none			1	10/9/2008	spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Orthoptera 1	Acrididae	Acridinae		Species 2		pinned		2186		9/20/2008	spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Orthoptera 2	Acrididae	Acridinae		Species 2		pinned		2253		9/20/2008	
YEW	Restored Wetland 2	Arthropoda	Insecta	Orthoptera 2	Acrididae	Acridinae		Species 3				2179	1	9/20/2008	spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Orthoptera 1	Acrididae	Acridinae		Species 3		pinned	1	1870	1	5/7/2008	spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Orthoptera 0	Acrididae	Acridinae		Species 4		pinned	1	1101	1	Sep-09	
YEW	Restored Wetland 2	Arthropoda	Insecta	Orthoptera	Acrididae	Acridinae		Species 5		Pinned	1	953	1	9/14/2007	Spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Orthoptera 2	Acrididae	Acridinae		Species 6		Pinned	1	390	1	7/4/2007	
YEW	Restored Wetland 2	Arthropoda	Insecta	Orthoptera 2	Acrididae	Acridinae		Species 7		pinned	1	1878	1	5/7/2008	spot
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Orthoptera	Acrididae	Acridinae		Species 8		pinned	1	1998	1	5/14/2008	malaise
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Orthoptera 1	Acrididae	Acridinae		Species 9		Pinned		1741	2	5/11/2007	
BWNWR	Reference Riparian Cott 6	Arthropoda	Insecta	Orthoptera	Acrididae	Acridinae		Species 9		Pinned		1743	1	5/11/2007	
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Orthoptera 1	Acrididae	Acridinae		Species 10		Pinned		1742	2	5/11/2007	
BWNWR	Reference Riparian 4	Arthropoda	Insecta	Orthoptera 2	Acrididae	Acridinae		Species 11		pinned		2226	1	10/9/2008	spot
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Orthoptera	Acrididae	Crytaceanthracridinae		Species 1		Pinned	1	865	1	9/9/2007	UV Light
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Orthoptera 1	Acrididae	Crytaceanthracridinae		Species 1		Pinned	1	971	1	9/13/2007	UV Light
YEW	Control Wetland 3	Arthropoda	Insecta	Orthoptera 2	Acrididae	Crytaceanthracridinae		Species 2		pinned	1	2064	1	7/9/2008	uv
YEW	Control Riparian 5	Arthropoda	Insecta	Orthoptera	Acrididae	Oedipodinae		Species 1		Pinned	2	1247- 1248	2	9/16/2007	Spot
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Orthoptera 2	Acrididae	Oedipodinae		Species 1		Pinned	2	1402	2	9/13/2007	Spot
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Orthoptera	Acrididae	Oedipodinae		Species 1		1 Pinned; 4 envelope	5	982	1	9/12/2007	UV Light
YEW	Control Riparian 4	Arthropoda	Insecta	Orthoptera	Acrididae	Oedipodinae		Species 1		none			1	7/10/2008	Spot
YEW	Adjacent Ag 2	Arthropoda	Insecta	Orthoptera 1	Acrididae	Oedipodinae		Species 1		none			1	7/18/2008	spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Orthoptera	Acrididae	Oedipodinae		Species 1		Pinned	1	1407	1	9/13/2007	Spot
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Orthoptera 1	Acrididae	Oedipodinae		Species 1		none			1	9/23/2008	spot
YEW	Restored Wetland 4	Arthropoda	Insecta	Orthoptera 1	Acrididae	Oedipodinae		Species 1		none			1	7/14/2008	spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Orthoptera 2	Acrididae	Oedipodinae		Species 1		pinned	1	1880	1	5/7/2008	spot

YEW	Adjacent Ag 1	Arthropoda	Insecta	Orthoptera	Acrididae	Oedipodinae		Species 2		Pinned		1740	1	5/13/2007	
YEW	Adjacent Ag 2	Arthropoda	Insecta	Orthoptera 2	Acrididae	Oedipodinae		Species 2		none			1	9/24/2008	uv
YEW	Adjacent Ag 1	Arthropoda	Insecta	Orthoptera 2	Acrididae	Oedipodinae		Species 2		Pinned	1	1351	1	9/18/2007	Spot
YEW	Restored Wetland 2	Arthropoda	Insecta	Orthoptera 4	Acrididae	Oedipodinae		Species 2		none			1	9/20/2008	spot
YEW	Restored Riparian Imm 1	Arthropoda	Insecta	Orthoptera	Acrididae	Oedipodinae		Species 3		pinned	1	1388	1	5/5/2008	spot
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Orthoptera	Acrididae	Oedipodinae		Species 4		Pinned	2	656- 657	2	7/1/2007	
YEW	Restored Wetland 1	Arthropoda	Insecta	Orthoptera	Acrididae	Oedipodinae		Species 4		pinned	1	1868	1	5/7/2008	uv
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Orthoptera 1	Acrididae	Oedipodinae		Species 4		none			1	10/8/2008	uv
YEW	Restored Wetland 2	Arthropoda	Insecta	Orthoptera 2	Acrididae	Oedipodinae		Species 5		Pinned	1	2254	1	Sep-07	
YEW	Restored Wetland 2	Arthropoda	Insecta	Orthoptera2	Acrididae	Oedipodinae		Species 5		pinned		2140	1	7/11/2008	spot
YEW	Restored Wetland 1	Arthropoda	Insecta	Orthoptera1	Acrididae	Oedipodinae		Species 6		pinned	1	2048	1	7/10/2008	uv

Rhaphidophoridae

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Wetland 1	Arthropoda	Insecta	Orthoptera1	Rhaphidophoridae		Dolichopoda	sp.		Pinned		1548	2	5/14/2007	Malaise

Tettigioniidae

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Orthoptera 3	Tettigioniidae			Speices 1		Pinned	1	1404	1	9/13/2007	Spot
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Orthoptera1	Tettigioniidae			Speices 1		pinned	1	2158	1	7/17/2008	uv
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Orthoptera	Tettigioniidae			Speices 2		pinned	1	1956	1	5/6/2008	spot
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Orthoptera 1	Tettigioniidae			Speices 3		Pinned	2	873 and 874	2	9/10/2007	Spot

Gryllidae

Site	Location	Phylum	Class	Order	Family	Sub-Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Riparian Imm 2	Arthropoda	Insecta	Orthoptera	Gryllidae	Gryllinae		Species 1		Pinned	1	1841	2	4/16/2008	Pit Trap
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Orthoptera 1	Gryllidae	Gryllinae		Species 1		none			1	9/21/2008	uv
YEW	Restored Wetland 1	Arthropoda	Insecta	Orthoptera 2	Gryllidae	Gryllinae		Species 1		none			1	9/20/2008	uv
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Orthoptera	Gryllidae	Gryllinae		Species 1		Pinned	2	1846, 1847	6	4/16/2008	Pit Trap
YEW	Control Riparian 2	Arthropoda	Insecta	Orthoptera	Gryllidae	Gryllinae		Species 1		Pinned	1	564	1	7/3/2007	
BWNWR	Reference Wetland 5	Arthropoda	Insecta	Orthoptera	Gryllidae	Gryllinae		Species 2		Pinned	1	1020	1	9/11/2007	Malaise
YEW	Restored Riparian Imm 3	Arthropoda	Insecta	Orthoptera	Gryllidae	Nemobiinae		Species 1		Pinned	1	1848	1	4/16/2008	Pit Trap

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Wetland 1	Arthropoda	Insecta	Orthoptera 1						Pinned	1	389	1	7/4/2007	
YEW	Control Wetland 4	Arthropoda	Insecta	Orthoptera 1						ETOH	1	1973	1	5/9/2008	spot
YWW	Mature Restored Rip. 5	Arthropoda	Insecta	Orthoptera 1						pinned		2229	1	9/19/2008	spot

Trichoptera

Hydroptilidae

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Trichoptera 2	Hydroptilidae		Species 1		pinned	1 of 2	2214	11	9/19/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Trichoptera 2	Hydroptilidae		Species 1		pinned	2 of 2	2215	11	9/19/2008	uv
YEW	Adjacent Ag 1	Arthropoda	Insecta	Trichoptera					Pinned	1	205	2	6/28/2007	
BWNWR	Reference Riparian Cott 2	Arthropoda	Insecta	Trichoptera					ETOH	1	491	1	7/1/2007	
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Trichoptera					ETOH	2	741	2	7/2/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Trichoptera					Pinned	2	233- 234	4	6/28/2007	
YEW	Restored Wetland 1	Arthropoda	Insecta	Trichoptera 1					none			11	9/20/2008	uv
YWW	Mature Restored Rip. 3	Arthropoda	Insecta	Trichoptera 1					none			11	9/19/2008	uv
YEW	Control Riparian 2	Arthropoda	Insecta	Trichoptera 1					none			35	9/22/2008	uv
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Trichoptera 1					none			1	10/8/2008	uv
YEW	Restored Wetland 1	Arthropoda	Insecta	Trichoptera					none			11	7/10/2008	uv
YEW	Control Wetland 3	Arthropoda	Insecta	Trichoptera 1					none			11	7/9/2008	uv
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Trichoptera 1					ETOH	1	650	1	7/1/2007	
YEW	Control Wetland 3	Arthropoda	Insecta	Trichoptera 2					Pinned	3	277	11	7/3/2007	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Trichoptera 2					ETOH	5	684	11	7/1/2007	
BWNWR	Reference Riparian Cott 4	Arthropoda	Insecta	Trichoptera					ETOH	8	898	8	9/9/2007	UV Light
BWNWR	Reference Wetland 3	Arthropoda	Insecta	Trichoptera					ETOH	1	941	1	9/11/2007	UV Light
YEW	Adjacent Ag 1	Arthropoda	Insecta	Trichoptera					ETOH	5	1090	5	9/15/2007	UV Light
YEW	Control Riparian 2	Arthropoda	Insecta	Trichoptera					ETOH	4	1226	4	9/14/2007	UV Light
YEW	Restored Wetland 4	Arthropoda	Insecta	Trichoptera					none			35	9/20/2008	malaise
YEW	Restored Wetland 1	Arthropoda	Insecta	Trichoptera 1					Pinned	4	1125	4	9/13/2007	UV Light
YEW	Restored Wetland 1	Arthropoda	Insecta	Trichoptera 2					ETOH	2	1118	2	9/13/2007	UV Light
YEW	Restored Wetland 1	Arthropoda	Insecta	Trichoptera 3					ETOH	1	1118	1	9/13/2007	UV Light
YEW	Restored Wetland 1	Arthropoda	Insecta	Trichoptera					pinned	1	1867	14	5/7/2008	uv

Arachnida

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Restored Wetland 4	Arthropoda	Arachnidae	Araneae 33					ETOH	1	319	1	7/4/2007	
YEW	Restored Wetland 4	Arthropoda	Arachnidae	Araneae 32					ETOH	1	320	1	7/4/2007	
YEW	Restored Wetland 2	Arthropoda	Arachnidae	Araneae 31					ETOH	1	327	1	7/4/2007	
BWNWR	Reference Riparian Cott 6	Arthropoda	Arachnidae	Araneae 30					ETOH	2	333	2	7/1/2007	
BWNWR	Reference Riparian Cott 6	Arthropoda	Arachnidae	Araneae 29					ETOH	1	334	1	7/1/2007	
YEW	Restored Wetland 1	Arthropoda	Arachnidae	Araneae 28					ETOH	1	350	1	7/4/2007	
YEW	Restored Wetland 1	Arthropoda	Arachnidae	Araneae 27					ETOH	1	351	1	7/4/2007	
YEW	Restored Wetland 1	Arthropoda	Arachnidae	Araneae 26					ETOH	1	352	1	7/4/2007	
YEW	Restored Riparian Imm 1	Arthropoda	Arachnidae	Araneae 25					ETOH	1	374	1	7/5/2007	
YEW	Restored Riparian Imm 1	Arthropoda	Arachnidae	Araneae 24					ETOH	2	375	2	7/5/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Arachnidae	Araneae 23					ETOH	1	554	1	7/6/2007	
YWW	Mature Restored Rip. 3	Arthropoda	Arachnidae	Araneae 22					ETOH	2	554	2	7/6/2007	
YEW	Adjacent Ag 1	Arthropoda	Arachnidae	Araneae 21					ETOH	1	618	1	6/30/2007	
YEW	Control Riparian 2	Arthropoda	Arachnidae	Araneae 20					ETOH	1	642	1	7/9/2007	
YEW	Control Riparian 5	Arthropoda	Arachnidae	Araneae 19					ETOH	1	646	1	7/9/2007	
YEW	Control Riparian 5	Arthropoda	Arachnidae	Araneae 18					ETOH	1	647	1	7/9/2007	
YEW	Control Wetland 3	Arthropoda	Arachnidae	Araneae 17					ETOH	1	742	1	7/10/2007	

YEW	Control Wetland 3	Arthropoda	Arachnidae	Araneae 16						ETOH	2	742	2	7/10/2007	
YEW	Control Wetland 4	Arthropoda	Arachnidae	Araneae 15						ETOH	1	750	1	7/10/2007	
YEW	Restored Riparian Imm 1	Arthropoda	Arachnidae	Araneae 14						ETOH	1	990	1	9/13/2007	Spot
YEW	Restored Riparian Imm 1	Arthropoda	Arachnidae	Araneae 13						ETOH	1	991	1	9/13/2007	Spot
BWNWR	Reference Riparian Cott 4	Arthropoda	Arachnidae	Araneae 12						ETOH	1	862	1	9/10/2007	Spot
YEW	Control Wetland 4	Arthropoda	Arachnidae	Araneae 11						ETOH	1	1996	1	5/9/2008	malaise
BWNWR	Reference Wetland 2	Arthropoda	Arachnida	Araneae 10						ETOH	1	2013	1	5/15/2008	spot
YEW	Restored Riparian Imm 3	Arthropoda	Arachnidae 1	Araneae 9						ETOH	1	2020	1	5/17& 5/19/08	Pit Trap
YEW	Restored Riparian Imm 2	Arthropoda	Arachnidae 1	Araneae 8						none			1		pit trap
YEW	Restored Riparian Imm 2	Arthropoda	Arachnidae 2	Araneae 7						ETOH	1	2022	1		pit trap
YEW	Restored Riparian Imm 2	Arthropoda	Arachnidae 3	Araneae 6						ETOH	2	2024	2		pit trap
BWNWR	Reference Riparian Cott 6	Arthropoda	Arachnida	Araneae 5						ETOH	1	2030	1		pit trap
BWNWR	Reference Wetland 3	Arthropoda	Arachnida	Araneae 4						ETOH	1	2155	1	7/18/2008	spot
YEW	Control Wetland 4	Arthropoda	Arachnidae	Araneae 3						ETOH	1	2037	1	7/9/2008	spot
YEW	Control Riparian 4	Arthropoda	Arachnida	Araneae 2						etoh	1	2056	1	7/10/2008	Spot
BWNWR	Reference Wetland 3	Arthropoda	Arachnida	Araneae 1						pinned	1	2131	1	7/18/2008	uv
YEW	Control Wetland 2	Arthropoda	Arachnida	Araneae 0						pinned		2193	1	9/22/2008	spot
BWNWR	Reference Wetland 5	Arthropoda	Arachnida	Araneae 1						ETOH		2246	11	10/8/2008	spot

Scorpiones

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Control Riparian 2	Arthropoda	Arachnida	Scorpiones					ETOH	1	2025	1		pit trap
YEW	Control Riparian 2	Arthropoda	Arachnida	Scorpiones					pinned	1	2026	1		pit trap
BWNWR	Reference Riparian Cott 6	Arthropoda	Arachnida	Scorpiones					ETOH	1	2029	4		pit trap
YEW	Control Riparian 4	Arthropoda	Arachnida	Scorpiones					ETOH	1	2032	1	5/8/2008	Pit trap

Amphipoda

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Wetland 2	Arthropoda	Malacostraca	Amphipoda					ETOH	1	313	1	7/2/2007	
YEW	Restored Wetland 4	Arthropoda	Malacostraca	Amphipoda					ETOH	1	323	1	7/4/2007	
YEW	Control Wetland 4	Arthropoda	Malacostraca	Amphipoda					ETOH	6	748	6	7/10/2007	
BWNWR	Reference Wetland 5	Arthropoda	Malacostraca	Amphipoda 1					ETOH	4	309	4	7/2/2007	
BWNWR	Reference Wetland 5	Arthropoda	Malacostraca	Amphipoda 2					ETOH	3	340	3	7/2/2007	
BWNWR	Reference Wetland 5	Arthropoda	Malacostraca	Amphipoda 3					ETOH	1	342	1	7/2/2007	
YEW	Control Wetland 2	Arthropoda	Malacostraca	Amphipoda					ETOH	1964	2	2	5/9/2008	spot
BWNWR	Reference Wetland 3	Arthropoda	Malacostraca	Amphipoda 1					ETOH	2	2248	1	10/8/2008	spot

Isopoda

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Riparian Cott 4	Arthropoda	Malacostraca	Isopoda					ETOH	1	336	1	7/1/2007	

Annelida

Site	Location	Phylum	Class	Order	Family	Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Wetland 5	Annelida							ETOH	2	343	2	7/2/2007	

Gastropoda

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
YEW	Control Wetland 4	Arthropoda	Malacostraca	Gastropoda 1						ETOH	super abundant	749	150	7/10/2007	
YEW	Control Wetland 4	Arthropoda	Malacostraca	Gastropoda 2						ETOH	5	751	5	7/10/2007	
BWNWR	Reference Wetland 2	Arthropoda	Malacostraca	Gastropoda 1						ETOH	2	955	2	9/11/2007	Spot
BWNWR	Reference Wetland 2	Arthropoda	Malacostraca	Gastropoda 2						ETOH	2	956	2	9/11/2007	Spot
BWNWR	Reference Wetland 5	Arthropoda	Malacostraca	Gastropoda						ETOH	1	961	1	9/11/2007	Spot
BWNWR	Reference Wetland 3	Arthropoda	Malacostraca	Gastropoda						ETOH	5	965	5	9/11/2007	Spot
YEW	Control Wetland 4	Arthropoda	Malacostraca	Gastropoda 1						ETOH	5	1033	5	9/15/2007	Spot
YEW	Restored Wetland 1	Arthropoda	Malacostraca	Gastropoda						ETOH	2	1873	2	5/7/2008	spot
YEW	Restored Wetland 2	Arthropoda	Malacostraca	Gastropoda						none			4	5/7/2008	spot
YEW	Control Wetland 4	Arthropoda	Malacostraca	Gastropoda						ETOH	1	1974	1	5/9/2008	spot

Decapoda

Site	Location	Phylum	Class	Order	Family		Genus	Species	Sub-Species	Storage Method	Number Stored	Invert ID Number	Total Number	Date Collected	Method of Collection
BWNWR	Reference Wetland 5	Arthropoda	Malacostraca	Decapoda						ETOH	1	959	1	9/11/2007	Spot
YEW	Control Wetland 4	Arthropoda	Malacostraca	Decapoda 1						ETOH	1	1032	1	9/15/2007	Spot
YEW	Control Wetland 4	Arthropoda	Malacostraca	Decapoda 2						ETOH	2	1035	2	9/15/2007	Spot
BWNWR	Reference Wetland 3	Arthropoda	Crustacea	Decapoda						ETOH	2	2015	2	5/15/2008	spot

Appendix L. Avifaunal Species Detection List

Common Name	Scientific Name	YEW/YWW	BWNWR	Habitat Detected
Abert's Towhee	<i>Pipilo aberti</i>	√	√	W, R
American Avocet	<i>Recurvirostra americana</i>	√	√	W
American Coot	<i>Fulica americana</i>	√	√	W
American Goldfinch	<i>Carduelis tristis</i>	√		R
American Kestrel	<i>Falco sparverius</i>	√		W
American Pipet	<i>Anthus rubescens</i>	√		W
American Wigeon	<i>Anas americana</i>	√		W
Anna's Hummingbird	<i>Calypte anna</i>	√	√	W, R
Ash-throated Flycatcher	<i>Myiarchus cinerascens</i>	√	√	W, R
Belted Kingfisher	<i>Megaceryle alcyon</i>		√	W
Bell's Vireo	<i>Vireo bellii</i>	√	√	W, R
Bewick's Wren	<i>Thryomanes bewickii</i>	√	√	R
Black Chinned Hummingbird	<i>Archilochus alexandri</i>	√		W, R
Black-crowned Night-Heron	<i>Nycticorax nycticorax</i>	√	√	W
Black Phoebe	<i>Sayornis nigricans</i>	√	√	W, R
Black Headed Grosbeak	<i>Pheucticus melanocephalus</i>	√	√	R
Black Rail	<i>Laterallus jamaicensis</i>	√	√	W
Black-necked Stilt	<i>Himantopus mexicanus</i>	√		W
Black-tailed Gnatcatcher	<i>Polioptila melanura</i>	√	√	W, R
Blue grey gnatcatcher	<i>Polioptila caerulea</i>	√		R
Blue Grosbeak	<i>Guiraca caerulea</i>	√	√	W, R
Brown-crested flycatcher	<i>Myiarchus tyrannulus</i>		√	W, R
Brown-headed Cowbird	<i>Molothrus ater</i>	√	√	W, R
Bullock's Oriole	<i>Icterus bullockii</i>	√		R
Cactus Wren	<i>Campylorhynchus brunneicapillus</i>	√	√	W, R
Canadian Goose	<i>Branta canadensis</i>		√	W
Canyon Wren	<i>Catherpes mexicanus</i>		√	R
Canyon Towhee	<i>Pipilo fuscus</i>		√	R
Clark's Grebe	<i>Aechmophorus clarkii</i>		√	W
Cliff Swallow	<i>Hirundo pyrrhonota</i>	√		R
Cinnamon Teal	<i>Anas cyanoptera</i>	√		W
Common Merganser	<i>Mergus merganser</i>		√	W
Common Moorhen	<i>Gallinula chloropus</i>	√	√	W
Common Ground Dove	<i>Columbina passerina</i>	√		R
Common Snipe	<i>Gallinago gallinago</i>	√		W
Common Yellowthroat	<i>Geothlypis trichas</i>	√	√	W, R
Cooper's Hawk	<i>Accipiter cooperi</i>	√		W, R
Costa's Hummingbird	<i>Calypte costae</i>	√	√	W, R
Crissal Thrasher	<i>Toxostoma crissale</i>	√	√	W, R
Double-crested Comorant	<i>Phalacrocorax auritus</i>	√	√	W

Common Name	Scientific Name	YEW/YWW	BWNWR	Habitat Detected
Eared Grebe	<i>Podiceps nigricollis</i>		√	W
Eurasian Collared Dove	<i>Streptopelia decaocto</i>	√		R
Gadwall	<i>Anas strepera</i>	√	√	W
Gambel's Quail	<i>Callipepla gambelii</i>	√	√	W, R
Gila Woodpecker	<i>Melanerpes uropygialis</i>	√	√	W, R
Great Blue Heron	<i>Ardea herodias</i>	√	√	W
Great Egret	<i>Casmerodius albus</i>	√	√	W
Greater Roadrunner	<i>Geococcyx californianus</i>	√	√	R
Greater Yellowlegs	<i>Tringa melanoleuca</i>	√		W
Great Horned Owl	<i>Bubo virginianus</i>		√	W, R
Great-tailed Grackle	<i>Quiscalus mexicanus</i>	√	√	W, R
Green Heron	<i>Butorides striatus</i>	√	√	W, R
Green Winged Teal	<i>Anas crecca</i>	√	√	W, R
Gilded Flicker	<i>Colaptes auratus</i>	√	√	R
Hooded Oriole	<i>Icterus cucullatus</i>		√	R
Horned Lark	<i>Eremophila alpestris</i>	√		R
House Finch	<i>Carpodacus mexicanus</i>	√	√	W, R
House Wren	<i>Troglodytes aedon</i>	√	√	R
Killdeer	<i>Charadrius vociferus</i>	√		W, R
Ladder-backed Woodpecker	<i>Picoides scalaris</i>	√	√	W, R
Lark Sparrow	<i>Chondestes grammacus</i>	√		R
Lazuli Bunting	<i>Passerina amoena</i>	√		R
Least Bittern	<i>Ixobrychus exilis</i>	√	√	W
Least Sandpiper	<i>Calidris minutilla</i>	√		W
Lesser Goldfinch	<i>Carduelis psaltria</i>	√	√	R
Lesser Nighthawk	<i>Chordeiles acutipennis</i>	√	√	W, R
Long Billed Dowitcher	<i>Limnodromus scolopaceus</i>	√		W
Lucy's Warbler	<i>Vermivora luciae</i>	√	√	W, R
MacGillivray's Warbler	<i>Oporornis tolmiei</i>	√	√	R
Mallard	<i>Anas platyrhynchos</i>	√	√	W
Marsh Wren	<i>Cistothorus palustris</i>	√	√	R, W
Mourning Dove	<i>Zenaida macroura</i>	√	√	W, R
Northern Flicker	<i>Colaptes auratus</i>	√	√	W, R
Northern Harrier	<i>Circus cyaneus</i>	√		R
Northern Mockingbird	<i>Mimus polyglottos</i>	√		R
Northern Rough-winged Swallow	<i>Stelgidopteryx serripennis</i>	√		W, R
Northern Shoveler	<i>Anas clypeata</i>		√	W
Orange Crowned Warbler	<i>Vermivora celata</i>	√	√	W, R
Osprey	<i>Pandion halietus</i>	√		R
Pacific-slope Flycatcher	<i>Empidonax difficilis</i>	√		R

Common Name	Scientific Name	YEW/YWW	BWNWR	Habitat Detected
Peregrine Falcon	<i>Falco peregrinus</i>		√	R
Pied billed grebe	<i>Podilymbus podiceps</i>		√	W
Phainopepla	<i>Phainopepla nitens</i>	√	√	R
Reddish Egret	<i>Egretta rufescens</i>	√		W
Red Naped Sapsucker	<i>Sphyrapicus nuchalis</i>		√	R
Red-tailed Hawk	<i>Buteo jamaicensis</i>	√	√	R
Rock Dove	<i>Columba livia</i>	√		R
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	√	√	W, R
Ruby-crowned Kinglet	<i>Regulus calendula</i>	√	√	W, R
Ruddy Duck	<i>Oxyura jamaicensis</i>		√	W
Savanah sparrow	<i>Passerculus sandwichensis</i>	√		W
Say's Phoebe	<i>Sayornis sayi</i>	√	√	W, R
Sharp-shinned Hawk	<i>Accipiter striatus</i>	√	√	W, R
Snowy Egret	<i>Egretta thula</i>	√	√	W, R
Song Sparrow	<i>Melospiza melodia</i>	√	√	W, R
Sora	<i>Porzana carolina</i>	√		W
Spotted Sandpiper	<i>Actitis macularia</i>	√	√	W
Spotted Towhee	<i>Pipilo maculatus</i>		√	R
Summer Tanager	<i>Piranga rubra</i>		√	R
Townsend's Warbler	<i>Dendroica townsendi</i>	√		W
Tree Swallow	<i>Tachycineta bicolor</i>	√		W, R
Turkey Vulture	<i>Cathartes aura</i>	√		R
Verdin	<i>Auriparus flaviceps</i>	√	√	W, R
Virginia Rail	<i>Rallus limicola</i>	√	√	W
Warbling Vireo	<i>Vireo gilvus</i>		√	R
Western Grebe	<i>Aechmophorus occidentalis</i>	√	√	W
Western Kingbird	<i>Tyrannus verticalis</i>	√	√	W, R
Western Meadowlark	<i>Sturnella neglecta</i>	√		R
Western Sandpiper	<i>Calidris mauri</i>	√		W
Western Wood Peewee	<i>Contopus sordidulus</i>	√	√	R
White-crowned Sparrow	<i>Zonotrichia leucophrys</i>	√	√	W, R
White-faced Ibis	<i>Plegadis chihi</i>	√		W
White throated swift	<i>Aeronautes saxatilis</i>	√		R
White-winged Dove	<i>Zenaida asiatica</i>	√	√	W, R
Willow Flycatcher	<i>Empidonax traillii</i>	√	√	W, R
Wilson's Warbler	<i>Wilsonia pusilla</i>	√	√	W, R
Yellow Billed Cuckoo	<i>Coccyzus americanus</i>	√	√	R
Yellow Warbler	<i>Dendroica petechia</i>	√	√	W, R
Yellow-breasted Chat	<i>Icteria virens</i>	√	√	W, R
Yellow-headed Blackbird	<i>Xanthocephalus xanthocephalus</i>	√	√	W, R

Common Name	Scientific Name	YEW/YWW	BWNWR	Habitat Detected
Yellow-rumped Warbler	<i>Dendroica coronata</i>	√	√	W, R
Yuma Clapper Rail	<i>Rallus longirostris yumanensis</i>	√	√	W

Appendix M: Mammal Species Detection List

Common Name	Genus and Species	Restored Immature Riparian	Restored Mature Riparian	Control Riparian	Reference Riparian	Adjacent Agriculture	Restored Wetland	Reference Wetland	Control Wetland
House Mouse	<i>Mus musculus</i>	x			x	x	x	x	
Desert Pocket Mouse	<i>Chaetodipus penicillatus</i>	x	x	x	x	x		x	x
American Deer Mouse	<i>Peromyscus maniculatus</i>	x	x	x	x	x	x	x	x
Western Harvest Mouse	<i>Reithrodontomys megalotis</i>	x	x	x			x	x	
Cactus Mouse	<i>Peromyscus eremicus</i>	x	x	x	x	x	x	x	x
White-throated Woodrat	<i>Neotoma abigula</i>			x	x		x	x	x
Desert Woodrat	<i>Neotoma lepida</i>							x	
Hispid Cotton Rat	<i>Sigmodon hispidus</i>								x
Spotted Skunk	<i>Spilogale gracilis</i>							x	
Coyote	<i>Canis latrans</i>	x	x	x	x	x	x	x	x
Bobcat	<i>Lynx rufus</i>	x	x	x	x	x	x	x	x
Desert Cottontail	<i>Sylvilagus audubonii</i>	x	x	x	x	x	x	x	x
Northern Raccoon	<i>Procyon lotor</i>	x	x		x		x	x	x
American Beaver	<i>Castor canadensis</i>	x	x	x			x	x	x
Grey Fox	<i>Urocyon cinereoargenteus</i>	x			x		x		
Kit Fox	<i>Vulpes macrotis</i>						x		
Round-Tailed Ground Squirrel	<i>Spermophilus tereticaudus</i>	x	x	x		x			
Botta's Pocket Gopher	<i>Thomomys bottae</i>		x			x			
Collard Peccary	<i>Tayassu tajacu</i>				x			x	
Black-tailed Jackrabbit	<i>Lepus californicus</i>				x			x	
Mule deer	<i>Odocoileus hemionus</i>				x			x	
Mountain Lion	<i>Puma concolor</i>							x	

Appendix I. Mammal species detected in the different habitat types at the Yuma East and West Wetlands and Bill Williams National Wildlife Refuge for April, May, October and November 2008.

Appendix N. Herpetofaunal Species List

Common Name	Genus and Species	Restored Immature Riparian	Restored Mature Riparian	Control Riparian	Reference Riparian	Adjacent Agriculture	Restored Wetland	Reference Wetland	Control Wetland
Arizona Toad	<i>(Bufo microscaphus)</i>				x				
Red-spotted Toad	<i>(Bufo punctatus)</i>				x			x	
Woodhouse's Toad	<i>(Bufo woodhousei)</i>	x			x			x	
Rio Grande Leopard Frog	<i>(Rana berlandeiri)</i>						x*		
Bullfrog	<i>(Rana catesbeiana)*</i>								
Western Whiptail	<i>(Aspidoscelis tigris)</i>	x	x	x	x		x	x	x
Spiny Lizard	<i>(Sceloporus magister)</i>	x	x	x	x				x
Long-tailed Brush Lizard	<i>(Urosaurus graciosus)</i>	x	x	x					x
Tree Lizard	<i>(Urosaurus ornatus)</i>		x	x			x		
Side-blotched Lizard	<i>(Uta stansburiana)</i>	x	x	x	x			x	x
Zebra-tailed Lizard	<i>(Callisaurus draconoides)</i>							x*	
California Kingsnake	<i>(Lampropeltis getula)</i>		x						
Long-nosed Snake	<i>(Rhinocheilus lecontei)</i>		x						
Western Thread Snake	<i>(Leptotyphlops humilus)</i>	x*							
Western Diamondback Rattlesnake	<i>(Crotalus atrox)**</i>			x*					

x* = found nearby but not actually on sampling array.

Appendix J. Herpetofaunal species detected in the different habitat types at the Yuma East and West Wetlands and Bill Williams National Wildlife Refuge for April, May, October and November 2008.

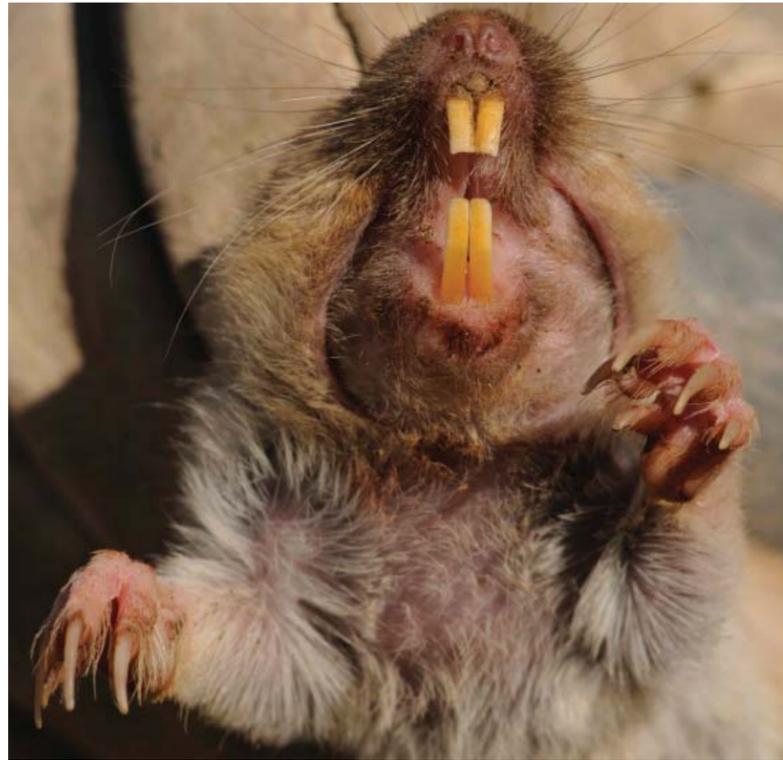
Appendix O. Lizards Captured by Age Class

APPENDIX K.

Lizard captures by age class

SPECIES	AGE CLASS			
	ADULT	SUB-ADULT	JUVENILE	HATCHLING
WESTERN WHIPTAIL				
APR	7	2	0	0
MAY	25	5	0	0
OCT	1	1	5	0
NOV	0	2	1	0
TOTAL	33	10	6	0
SPINY LIZARD				
APR	1	0	1	0
MAY	0	0	1	0
OCT	0	0	9	2
NOV	0	0	3	0
TOTAL	1	0	14	2
LONG-TAILED BRUSH LIZARD				
APR	0	0	0	0
MAY	8	0	0	0
OCT	5	5	2	2
NOV	3	0	1	2
TOTAL	16	5	3	4
TREE LIZARD				
APR	1	0	0	0
MAY	1	0	0	0
OCT	2	0	0	0
NOV	1	0	0	0
TOTAL	5	0	0	0
SIDE-BLOTCHED LIZARD				
APR	27	0	1	0
MAY	20	5	0	0
OCT	22	4	2	6
NOV	7	2	2	3
TOTAL	76	11	5	9

Appendix P. Photo Essay of Research Project



Botta's Pocket Gopher Caught in Mammal Traps



Mammal Trapping in a Control Riparian Site



Processing Trapped Mammals in Control Riparian Site



White Faced Ibis and Great Blue Herons at the Restored Wetland Site



Cooper's Hawk Flying Over Restored Riparian Site



Pollinating Hummingbird



Groundsnake Caught in Herpetofaunal Arrays



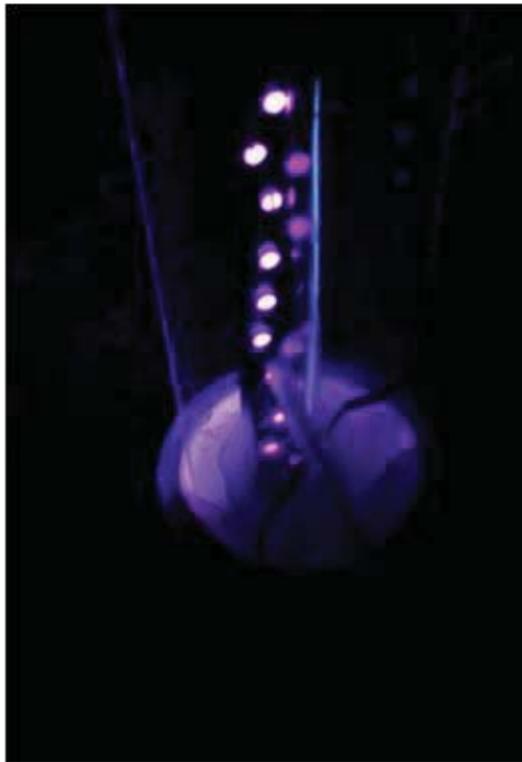
Tiger Whiptail



Hymenoptera collection case



Invertebrate Identification



UV Black Light Sampling for Invertebrates at Night



The Malaise Trap Collects Flying Invertebrates During the Day



Spot Collecting Invertebrates With a Sweep Net in the Restored Wetland Sites



Herpetofauna Drift Fence Array



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The Effects of Restoration on Wildlife Recovery at the Yuma East Wetlands Restoration Project
and The Effects of Restoration on Herpetofaunal and Mammalian Community Recovery
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